PRACTICAL

OBSERVATIONS

ONTHE

Epidemical FEVER,

WHICH

Hath reign'd so violently for these Two Years past, and still rages at this present Time.

WITH

wherein this fatal Distemper disters from Common Fevers; and more particularly why the BARK has so often fail'd; and Methods prescrib'd to render its Us E more effectual.

In which is contain'd,

A very REMARKABLE HISTORY of a SPOTTED FEVER.

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PREFACE.

AS a Fever has reign'd for Two Tears past, and has prov'd fatal to many, and has help'd, in one Week, to swell our Weekly-Bills to near one Thousand in this Town, I hope it will not be difagreeable to the Gentlemen, especially the young ones of the Faculty; to have some few Observations communicated to them, which are the Refult of Remarks made on Persons labouring under this Disease; and which I rather chose to publish under the Name of Observations, than of Histories. where I must have made publick the Names of the Persons, whose Liberty for so doing I had never demanded: It is never material to know who was ill, fo we know what ailed them, and how they were restored to Health.

So far as I have been able to observe; the past and present Fever have been Remitting at sirst, and by Neglect or Mismahagement

nagement have turn'd Malignant, and in some few Pestilential. It is very natural for a Fever to take its Course, and whereever the Sick have had no Regard to themselves, the Consequences rarely turn favourable, but on the coutrary, the Spirits are either exhausted, or the Blood becomes inflam'd; from whence it cannot be wonder'd at, if we meet with fix'd Inflammations, or protracted Fevers, with Hecticks, Cachexies, Lienteries, Consumptions, or with a Thousand of irregular Symptoms portending Excision and Mortality.

I do not pretend that these Remarks add any Thing new to the Criticon Febrium; but they confirm the Methods I have there pursu'd, and they serve to illustrate that Piece, and to put it in a clearer Light. I am very sensible how short and unfinish'd that Discourse may appear to some, for want of Histories, and a more minute Descant on many Particulars, which I am so far from explaining there, that I have rather hinted at them, than drawn them into a proper Extent. I only design'd that as a Piece in Miniature, not a full Length; and whatever Lines I shall draw for the future, will only serve to finish it. Fevers introduce such a Variety, and so infinite a Complication of Symptoms, that whoever attempts an Essay on them, must look into so many Circumstances, and such a strict Eye must be given to so many Heads, that he cannot avoid being expos'd, or shewing his Skill. Proper Judges quickly find out the Foible of the former; and, contemning bad Criticks, few are capable of passing Sentence on the latter: If the Subject treated on, be concisely handled, it is odds, but somewhat will be deem'd to be omitted, unless a farther Explication appear; if copiously, it is yet possible, say they, to extend it further upon a short Basis; and on either hand it will be pronounc'd imperfect by fuch Zoilus's: Let these Persons appear and shew themselves, under their own Colours. I believe therefore, an inexhaustible Subject will afford Room enough for the whole Faculty to descant on. The Rules of Art themselves, on which Fevers depend, are numerous; but the Complications become infinite. It is easy to know, whether an Author offends against those Rules, if the Reader be vers'd in them; but it is not easy to conceive or say, whether he has included all that depends on those Rules; for if A 3

if the very Rules themselves are concealed from their Knowledge, they can be no Judges of the Complications; and a sew Particulars will inform us how desicient many

are in thefe very Principles.

I shall enforce the former Paragraph, by hinting at a few Particulars, which are too little known, or however observ'd: There is not a greater Mischief happens in Physical Treatises, than the Graphical Description of Diseases, as they are managed by the Students. I am very well appriz'd, bow much I shall be thought to be mistaken; but if we examine the Works of an Author who excells in such Descriptions, we may soon be satisfied in the Matter. Dr. Sydenham is very particular in giving a Detail of every Difease; he tells minutely what bappens, but there is no Provision made to distinguish the main Signs of the Difease from the common ones; where the Characteristicks are buddled among the fortuitous Signs, and the unwary are left to believe that whole Detail absolutely neces-Cary to pronounce his Patients to labour under that Disease; and it is not much to be wonder'd, that young Practitioners should be of this Sentiment; but I am afraid

fraid this laborious Error spreads among those of more Experience, when we find some believing a hard Pulse to be a Pathognomonick of a Pleurify, and the Redness of the Cheeks an inseparable Sign of a Hectick Fever; whereas fuch Signs only denote the Presence of the Disease, as are never wanting in it: All others are term'd common. These Descriptions therefore which are too minute, without proper Distinctions made, do, like ignes fatui, lead young Gentlemen out of their Road; and the main thing they aim to instruct you in, is put quite out of View. So that one of the principal and first Marks you level at, is render'd impracticable; if then you can't come at the Knowledge of the Difease, you flick in the Threshold, and you never can enter into the Cause of what you have no Idea of; and consequently the Cure will never succeed. I would not have said so much on this Affair, if I were not Sufficiently convinc'd, that I have laid open a fevere Truth.

To such Men the Rules of Art beforemention'd are of no use; for if the Knowledge of a Disease or Diseases, when there are more than one, is an invincible Mysteviii

ry: The Cause and its Cure must of Consequence remain Secrets, and then their whole Scheme is Ideal; nor is there any afsignable Proportion between the Expettations of such Practitioners, and complete Masters of the Distinguenda: However necessary these Præcognita are to Practice, we are yet in the Dark, if we pretend to dwell there; for a stated Method of curing any Disease, is a vulgar and dangerous Error; take the Case in this Prospect, and Dr. Sydenham's, Willis's, Riverius's, and all the Works yet publish'd on Diseases, are a Series of Errors; but aphorifical Authors are in a more particular Manner too absurd, to be follow'd; for as there is the same Uniformity in Diseases, as in Faces, a Disease with its individual Symptoms, requires opposite Cures in distinct Patients. Of what Authority then is Dr. Sydenham, or any greater than him, if such an one there be, to a reasonable Practitioner? Books of Physick appointing certain Methods for certain Diseases, are not to be confided in for our Guides in Practice; because where such Authors would themselves recede from their assign'd Methods, we have no Reason to stick to them: And who is so stupid to imagine, that

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Sign Cau that a Jaundice must always yield to an Aperient Apozeme, to Cholagogues, and Tunbridge Waters, as Sydenham * has wrote; when Bleeding is sometimes so necessary, that the aforefaid Remedies of Sydenham would equally destroy your Patients, as the Neglect of Bleeding would suffer them to drop? There are other Jaundices then, which are pass'd over in Silence in This renown'd Author, and that Disease is too equivocal to depend wholly on his Authority for its Cure: Let not my Readers say I act invidiously against renown'd Authority; no, I revere the aforesaid Author, and admire his Judgment; but altho' he acts candidly and judiciously in all his Practice, and directs you punctually as to what Methods are to be pursued for that particular Case, yet it is a Mistake, that you foist upon him, to suppose. he excludes other Circumstances, which would have made him change his Sentiments also. His Indications never were precarious, but were founded upon stable and real, not imaginary, Rules: He look'd too narrowly into Signs and Symptoms, which betoken'd the Causes in Action; and from thence he built up his Method of Cure: This was com-

^{*} P. m. 180.

mendable in him, and worthy of our Imitation; for as each Cause has determinate Signs to manifest itself, if we are capable of discerning them; we cannot err, if we rightly comprehend them; and indeed they are mostly the Objects of our Senses: If there is any Ambiguity in them, and there often is, we are not left however without Means to steer our Course by.

To all these we must add, how great a Necessity there is for a Practitioner of Phyfick to be well vers'd in every Head of his Business: He may know the Disease, and its Cause, and yet many Particulars in the Cure may be conceal'd from him: If this can be true, he is incapacitated from acting in Fevers with Conscience. The Extent therefore of Knowledge in a Practitioner must be very great, if he undertakes to practife in this Disease. Its Symptoms are quick in their Motions, they have double and treble Causes to enforce them, and no Time must be lost in their Relief: Repeated Inculcations are no where more pardonable than in what relates to them.

Were the Case in Dispute an irregular, Bent of the Spirits towards any Part, so as to produce Convulsions; suppose the left Side

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Side were convuls'd, and Revulsions were to be made, the Question wou'd turn upon this Hinge; namely, where ought we to begin; for as it is a stated Axiom, that we must revulse to a distant and contrary Part, it is easy enough to know what is a distant Part; but in the present, and all Nervous Cases, it is not readily determinable what Part may be call'd contrary : What if at length the Part affected show'd be deem'd the contrary Part, to which our Revulsives shou'd be apply'd? This bears the greater Resemblance to Truth, in as much as it is more than propable, that all our Nerves decussate from the Olfactory themselves, down to the very Cauda Equina; that is, the Nerves of the right have their Origin in the left; and, vice versa, those of the left spring from the right Side, whether in the Brain or Medulla Spinalis So that if a Palfy siezes any vertebral, or a set of vertebral Nerves on the left, the right Side, so far as that Range of Nerves reaches, becomes paralytick; and if we suppose this Disease to arise from an Oppression of Blood on the Nerve, or on a Fulness in the Artery compressing the Nerves, then the Side affected is the contrary

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trary Side; because the right Vertebrals, compress'd in their Origin, deprive the left Side of its proper Influence from the Nerves, and Bleeding ought to be perform'd in the left Arm, if we wou'd revulse: The apparent found Side therefore in nervous Cases, is really the opposite or contrary Part, where Revulsions are to be made to: If Revulsions then are not merely titular, and both Reason and Experience have prov'd they are not, we are led into a Circumstance, by the bare Knowledge of

Anatomy, never before publish'd.

There is another Remark well worth your observing, and which I don't perceive has been as yet regarded; namely, as Revulsives are only to be made at a Distance from the Part affected, it wou'd feem preposterous to postpone them to Derivations: Not to enter too far into Dispute, it is universally agreed on, that Derivatives are to succeed Revulsives, as surely as particular Evacuations are to follow Derivations: And yet Practice subverts the Scheme, which has never been disallow'd by any but ignorant Men: Or why do we apply Blisters first to the Neck, and often to the Head in delirious Cases, where the Brain, Brain, the Seat of the Symptom, is too turgid, with Humours of a very acrimonious Nature? Were it not more advisable to begin at the Legs, and gradually to afcend to the Head? How often have I reliev'd dry Asthma's and Pleurisies with Blisters to the Legs? Have I not experienc'd them of great and sudden Use in Ferenc'd them of great and sudden Use in Ferences with low Pulses, gentle Heat, Diarrhæa's, and other threatning Symptoms, apply'd to the Calves of the Legs? And they who will hearken to Reason and Experience, will find their Account in this Method.

I have another Observation to add concerning Revulsives; to wit, some of them are lasting, whilst others are only temporaty: The former are Blisters, Setons, and the like; and the latter are Bleeding, Cupping, and some others: The former continue their Effects for a long Time, and must be repeated seldomer, and are to be apply'd in larger Quantities; but the latter must be used more sparingly, and repeated oftner. Therefore,

I shall take the Liberty to annex one Remark more retaining to Revulsions, which is disregarded in Practice, and which

which is yet founded upon the most reasonable Basis, that the Circulation can afford: We are all well apprized, that many Deliriums depend on too plentiful an Afflux of Blood towards the Brain, and Diffections have given us plain Proofs that this is too often the Case: It cannot be wonder'd at, that the great Hurry the Blood is in, should convey too much to these Capillaries, and overstretch them; after which the Blood stagnates, or is some way obstructed; and the Brain is moved too much, and overcharged: Now as Revulsions are properly levell'd at a Prevention of too great an Afflux of Juices, before they are too deeply rivetted, then in Deliriums, and other Disorders depending on such a Hurry *, a Ligature made on each carotid Artery, so as to straiten them into an ordinary Capacity, will effectually prevent the too great Afflux of Blood to the Brain; mean while, are we to labour at other Means proper for this Purpose; and this Sort of Revulsion has this Convenience attending it, which we cannot say of most others; namely, it does not at all weaken the Pas

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tient, it is only troublesome by reason of the Straitness of the Ligature. Has not the like Practice obtain'd in Surgery heretofore, as an Interceptive in customary Defluxions? where, for Example, you have cured a Patient of any Tumor, and upon the least Emergency, this Swelling is apt to return; then; as the Largeness of the Artery is the Occasion of such an Aptitude to swell, it is reasonable to straiten it by a Compress and Ligature, yet so as not to obstruct the Circulation quite: This Stratagem has been found much more effectual, by fuch as have practis'd it by Advice, than all the trifling interceptive Plasters, whose Effects are somewhat dubious: Much more may be said on this Head, which shall be deferr'd till a fitter Opportunity.

There are so many Particulars worth Observation on this and other Heads, which have slipt common Notice, that it would take up more than a Preface to make an Index of them; without the full Knowledge of which however, no Man can properly be said to be a nice Physician: And this Art is of so large an Extent, that Improvements are still made by its Professors by daily Experience; so that to denominate

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any Man a perfect and nice Physician, is for relative a Compliment, that it is only faying he knows all the Rules of Art that are yet discover'd; for too much, God knows. lies yet conceal'd for future Ages to lay open, which is the Work of Observation, and therefore of Time. Wherever we are left without any Rule to steer by, Reason is our Guide; if that succeeds, it ought to be recorded as observed, and is to be reduc'd into a Rule for Practice.

I fear we are often too positive in giving in our Reasons for Effects, which we know more furely than we do their Caufes; and I shall instance in the Bark, which we are well enough asfur'd takes off a Remitting or Intermitting Fever; but we are not fo well acquainted why it does so: We generally believe this Calm to enfue from the Bitterness and Stypticity of the Bark; but we are not sure, whether the Resin of the Bark does not contribute towards the appeasing of the Commotion rais'd in the Blood; for as we learn by Experience, that Struggles are rais'd by blending concentred Oils and Acids together, we learn by the same Means, that if to Bodies, thus put in Motion, we add enough of Oils or Resins, the

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the Commotion ceases in an Instant: Thus to Dough fermenting throw in a little Oil, the Mass ceases to elevate; to Beer working in the Vat, it is customary for Distillers to throw in some Jalap Root in Powder, a little before the Excisemen gauge it; this makes the Vat subside considerably, and the Liquor ceases to ferment any further, and thereby they deceive the Gaugers. If you add Lard or Oil to Liquors under Fermentation, they work no more; nay, if you put Jesuits Powder to Ale whilf it is working, it stops the Fermentation : Perhaps in the same manner, the Bark thrown into the Blood under a preternatural Commotion, checks it, and a Calm enfues, or perhaps it works both by the former and this latter manner; and probably the fix'd and volatile Salts, which the Bark contains, do so castrate the Resin, that it does not work downwards, which however it often does in some.

Let us be sure of the constant and characteristick Effects of Remedies, and then let us reason suitably to these Effects: It matters not whether we reason according to the Chymical and Mechanical System, or according to a mix'd Scheme, so they hold

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good in all Points. Let Mechanists say what they please, we stand oblig'd first to Experiments in Chymistry for a large Share of our Knowledge in Physick; and when it is affirm'd that certain Effects, produc'd in our Bodies, depend on an Acid, nothing more is understood, than that such a Principle is the Occasion of all our Ills; now none is so fool-hardy as to deny there are Bodies quam proxime Acid, which have stated and regular Effects upon our Fluids and Solids; namely, they congeal our Blood, they cool and even chill us, they stop Putrefaction in Vicers, they prevent and cure Drunkenness, they restore our Appetites, they suppress Sweats, cure bilious Colicks; they prejudice hysterical Persons, produce and increase Pains and Stranguries, and are prejudicial to some Coughs; they cicatrise Ukers, and stop Bleedings: Now why they have these Effects must be discuss'd in a Mechanical Way; wherefore as that is done by having regard to the Figure, and other mechanical Affections of this Principle, we both agree; for as an Acid is understood to consist of hard, firm and penetrating Particles, they are heavy, attractive and active; they are elastick and soluble

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luble in Water; they attract Oils and alcaline Salts in certain Degrees, and thefe Properties they possess by reason of their Figure, Gravity, and other mechanical Affections, not because there is a fancied Contrariety between certain Bodies; for Example, between Oils and Acids, or between Acids and Alcalines; and thus we quarrel infinitely for want of understanding one another: Old Terms don't include necessarily a Misunderstanding of the true Principles; we may then keep the Terms, and yet mean anew: There is too much real Improvement to be made in Physick, we need not brangle about Trifles; and it is much to be suspected, because it generally so happens, that such as busy themselves about these Out-works of Physick, have nothing folid to propose to us.

I have said little or nothing in these Sheets concerning the Manner in which a Fever is produced, my Design being, as is said above, to relate Cases only as they occurred, without adding Names; and by so doing, to extend the use of my first * Essay on Fevers, which may afford a greater and larger Descant as Occasions offer: So that

^{*} Criticon Febrium.

these Paragraphs are, in Effect, Histories; but not deliver'd as such, having judg'd it more concise and instructive to deliver Observations in a cautionary than an historical Method.

As to the Cause of a Fever, the less intricate and more simple it is supposed, the more likely will it prove; and we need only shew, that in such a Case the Juices are render'd more sharp and deprav'd, to answer all the Ends we propose, and to account for all the Symptoms and the Methods of Cure: Wherefore, give me Leave to insert a few Postulata.

1. The Blood is render'd acrimonious by

Retentions or Additions.

2. The Moment of the Circulation is in a Compound Ratio of the Celerity and the Magnitude of the Pulse.

3. The Magnitude of the Pulse is in a direct Ratio of a just Rarefaction of the

Blood, and its Quantity.

4. The Celerity of the Pulse is in a Ra-

tio of the Acrimony of the Blood.

5. Neither the Celerity of the Pulse, nor the Quantity of Blood differ in the various Fevers, but the Moles differs.

- 6. The Arteries may be compress'd to a certain Degree by the Nerves surrounding them.
- 7. The Density of the Blood is in an inverse, but the Rarefaction in a direct Ratio to its Moles.

8. Too great a Rarefaction or Density destroys the Circulation of the Blood.

It is very evident, how an Excess of the Mass, circulating thro' the Vessels, destroys the Circulation; since if the Blood be impell'd into the Capillaries with Force, it distends them too much; the Consequence of which is the Loss of their restitutive Force: When Matters arrive at this Height, the Force impelling is not yet impair'd, but the Resistance at the Capillaries is destroy'd; all therefore that is fent thither, is received without Return; the Part, and Parts adjacent, are over-charg'd; and at last a Rup. ture of the Vessels ensues, the Blood is extravas'd and lodg'd, the Functions of the Organ, on which the Blood is spilt, are abolist'd; and if this Scene be acted on any Organ, on whose Action Life depends, the Play is over. Suppose the Brain were under these Circumstances, the Person affected would turn Lethargick, and too rapid a Circutation

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culation would inevitably overwhelm him; for in this Case the Glands would be oblig'd to receive Blood in lieu of Spirits, or would be so compres'd, that no Spirits could be separated, which two Things differ not in the Effect, tho' they do as to the Cause, but either way the Heart would want Supplies, and the Circulation would be loft, or Death would ensue. We ought not to wonder then, that we find Lethargicks dying with strong Pulfes, till the Moment their Agony begins, for then on a sudden it fails: I believe you will not find this Remark of Rhodius's any where accounted for; but as there are certain Limits allotted to the Elasticity and Resistance of the Fibres of every Individual, and none can know to what Degree a Vessel will stretch before it breaks : There are also certain Degrees of Motion beyond or below, which Nature cannot subsist without being oppresi'd or starv'd; whenever therefore we find a Distemper dangerous in its Motions, we must give a strict Eye to the Circulation of the Blood, and must keep in Mind, that as too rapid a Circulation can destroy, so we must be cautious how we deem a Patient in no Danger, who has a strong Pulse; for strong and good don't coincide here, inafmuch

much as the Strength of it is the Fault: And as Lethargicks generally have strong and great Pulses, and yet die under them, we must be oblig'd to say, that in that Case the stronger is the Pulse, the greater is the Danger that threatens; however this Comfort attends, that Discharges may be made the more freely, if we are call'd before the Extravasation be begun; and as it is not easy to know whether this Accident has befallen them, we must however be free in making the proper Discharges. The want of Success only confirms us whether this be the Case or no; for it is very probable, if there be no Extravasation or no Damage done to the Brain, that the Evacuations will have their wish'd-for Effect; but if that once be completed, the Patient will die of Course; so that Discharges are all the Chance that remains for the Preservation of Life; and Bleeding in Case of a Rupture is but ta. king the Contents out of a Carcass. I shall not here descend to more Particulars, which would naturally follow from these Postulata, for my Design is not to swell a Preface.

Thus from these sew Principles, branch'd out into various Particulars, it were very easy to account for all that happens in either

Sort of Fevers; but as I shall make them appear evidently in the LECTURES that will be published, it will be needless to insist further on them here; only it may be observed, that some new and more just Indications may be drawn from these Principles, which have not yet obtained in publick Practice, which however have succeeded, as will be spoke of in a proper Season.

Having cull'd out of many Heads, some few Observations not throughly consider'd, it will appear how lame vulgar Practice must be deem'd, when it only depends on Particulars; and how little particular Practices can be depended on far the just Cure of even a common Colick; since scarce one Invidual is found to be seiz'd with the numerical Signs of another, and since the least Variety unheeded changes the whole Scheme of Cure: We may then justly fay, that the vulgar Practice is merely cafual; and it is odds, if no other Methods are pursu'd, but what are dictated to us in Practices of Physick, tumbled over by the Generality, but we may meet with Prescriptions in a Consumption, proper only for a malignant Fever, or the Reverse; and what twh Con ver to who men ted from their want the been

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and main what just Reason would there not be for Complaint, if he who labours under the severest malignant Fever, should be sent into the Country to ride and take the Air; what has happen'd cannot be reputed Chymerical; and if such Mistakes are committed by Esculapii, what may we not expect from the less Expert! These Errors in them could only be an Inadvertency for want of Time to examine narrowly into the Matter; but in others it must have been invincible, from the want of a right Education, and could never therefore have been amended.

There is another Particular well worth Observation, namely, a Disease becomes very hard to be known, when Mismanagements have preceded: If Diseases are left to Nature, they are often imperfectly cur'd, and a less Disease succeeds a greater; as to this Point, you will find Instances enough in Hippocrates, and they are readily guess'd at; but where preposterous Methods have been made use of, the Task is so dissicult, that it is even impossible to foresee: We must compare the present with the preceding, and find out bow much of the former remains, and what Additions have been made

by the Errors committed: A strict Enquiry into the Order of Invasion is very useful in this Case; by this Diligence we become Masters of what was, and of what is; we discern what Deviation there is, by knowing what would have been the genuine Issue, if the Disease had been regularly treated, or had been left to Nature; and how great must this Mistake committed be, when we

are perfect Strangers to either?

How few Enemies soever you design to raise, it will always be your Fate to acquire some; but I wish they may never exceed the Rank of a certain Compiler of a Physical Lexicon, who, whilst he set up to instruct others in the Sense of Words, was compell'd to acknowledge he was not vers'd in the Language he pretended to explain; and taking upon him, among many other impertinent and obvious Errors, to explain the Word Euodia, he display'd his Ignorance in the very manner that could have been wish'd for: First, he finds out that it came from evwons, somewhat sweet-scented, which Hippocrates had made mention of; then he tells you very seriously, that the Word and Book were both whimsical and unintelligible; but upon Enquiry, and pressing the Question too bard

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before Witness, he was oblig'd to confess he neither understood Greek, nor had ever read the Book, and would retract his Error in the next Edition: Thus the memorable Quincy! Whereas the Word and Matter are the Term and Subject I was much oblig'd to the Ancients for. Jonston in his Idea calls it evosta, and Fernelius and Riolanus the Methodus Medendi; who quarrels then with either the Word or Matter, is ignorant of both; and I am determin'd such a Person, if I can think, shall never assist me in Extremis.

I make the same Protestation here, as I have done elsewhere, that if I commit any Errors, they are not voluntary, and I will make no scruple to retract them upon Conviction; let not any one however imagine, that I am under a Mistake, if their Sentiments disagree from mine, because it may require canvassing to prove me in an Error, since I have not advanced any thing which I have not good Grounds for; but Obstinacy has too great a Mixture of Folly for a Man of Honour to espouse it, and a Man of Sense looks greater for yielding upon Conviction.

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xxviii The PREFACE.

If the Art of Physick is to be advanc'd, no Discouragements ought to be given to the Undertakers thereof; let each Person of Industry draw out his Scheme, if it fails, he has at least shews his good Will, and prevents any other from steering in that Road; but if he succeeds, he merits Glory and Thanks. The greatest Service that can be done to so noble a Profession, is to attempt at Criterion's of the Causes of Diseases; I am so much appriz'd of this Difficulty, that were it now set upon, the greatest Practitioners wou'd not complete it in a couple of Centuries: I am afraid I may not be thoroughly understood, and therefore I will give some Instances, setting my Meaning in a clearer Light. In general, we are first to suppose the Fluids disorder'd, because as Persons do frequently recover of Illnesses, and the Fluids are readily corrected, they are imagin'd in Fault, and, to say the Truth, they are more often disorder'd than the Solids; or we shou'd more seldom meet with Cures perform'd: Diseases then of the Fluids yield more readily, and confirm'd ones in the Sotids do seldom yield. These are Truths which all know; but altho' we may find which

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which of the two are in Fault, it is not eaby to pronounce what numerical Causes affect either: As Diseases, ever so simple and uncompounded, are a Complex of many Causes affecting our Functions in peculiar and various Manners, so'tis improbable to meet with a Disease made up of one single Cause. and tho' one Remedy does often answer our End, yet it cou'd not effect this, if it did not answer more Purposes than one: A Pleurify is an Inflammation, and most do think it sufficient to know that it is so; and thus do they draw off Blood in large Quantities, and believe, they have done all that is requir'd of them, if even the Patient sinks: But I am far from being of their Opinion. What Bounds do they prescribe to this Evacuation? Or, what is it that regulates this Discharge? Are there no Scruples to be proposed about the Part affested? Do they pay no Regard to the Time or Season of the Disease? Are there not esential and eventual Symptoms in this Distemper? Is there not some Regard to be had to the Irritation? or to the Expectoration? or perhaps to the Matter adbering? I have a great many more Queries to be answer'd concerning this one particular

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ticular Distemper, which will convince any moderately skill'd in the Art of Physick, that the Indications are not to be satisfied, by barely pronouncing it an Inflammation, and by drawing off Blood, and keeping cool; perhaps I shall be deem'd too scrupulous and nice in my Inquiries, and too minute in Particulars; but if Life is at Stake, and Experience dictates these Scruples, or Omissions have prov'd of bad Consequence, who is that Patient that will complain you have taken his Case too much at Heart? And I will affirm, that in the ordinary Method of proceeding by the Gross, the Recovery of most Patients from a Pleurify is merely cafual: And the principal Mistakes committed usually, are at the first and middle Stages, which relate principally to the Discharges to be made.

If there be such Difficulties to be encounter'd with in a Disease so well known as is a Pleurisy; what must we say of Distempers more decompounded? What Compassion ought we to have for young Gentlemen educated in so perfunctory a Road, as is practised in our modern Instructions? They labour industriously at Anatomy and slightly run over Chymistry, and they

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are then admitted to see Patients blooded, vomited, purg'd, blister'd, or salivated; they see Pills, Bolus's, Tinctures, Infusions or Julaps prescrib'd for certain Distempers, whose minute Differences, or whose Essences and Incidents are not at all open'd to them: If then there shou'd any forbidding Circumstances occur in their own private Practice, which they never saw whilst under Direction, what Anxieties of Mind are they not under? I must therefore repeat it, that particular Practices are dangerous, and not at all in-Aructive; to follow this Method, is to begin where they shou'd end. Far otherwise do Divines and Lawyers commence their Studies; because they never begin with Cases or Reports, but deal for some Years in Generals, before they descend to Particulars; the general Reasons of Things ought to precede Examples: And an Analogy of Examples being the utmost Extent of such Mens Knowledge, it must needs be weak and sender, from the Variety of States in the Fluids and Solids, which are always fleeting, and never stable, and which seldom produce univocal Cases: And then Persons

xxxii The PREFACE.

so lamely bred up, as I have just mention'd, are puzzled in all their Actions; an imperceptible Variety baffles their Endeavours, they flounder in Difficulties, and e're an expert Physician can be had, the Patient drops unexpectedly for want of a masterly Discernment: And well may flow and weak Men fail, when the brightest Genius cannot extricate himself from fuch Difficulties, by Reason of this his preposterous and narrow Education. And it were not quite so blameable, if some Persons of Distinction did not give Encouragement to so low a Method; because proceeding against Conviction, they advise this, and discourage all other Instructions; such has been my Method, let yours be such too. It is much to be fear'd, that Physick thus manag'd, will at last dwindle into mere Charlatanery: At this Rate, good Things formerly in Use will be neglected, and new Inventions will fink : A Self-sufficiency and Obstinacy will obtain, and our Art will droop. Not so the Ancients.

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Practical OBSERVATIONS

Epidemical FEVER,

That has Reign'd for these Two YEARS past, &c.

AVING some Years ago publish'd a small Treatise on Fevers, and their Cures, I hope it will not be taken in ill Part, if to that Subject I make some farther Remarks, in that casual Order they occurr'd to me in Practice; for they require no Order. These Observations serve to illustrate what I have advanc'd in that Treatise, and are so many Histories annex'd to it.

In some who have had this Fever in a dangerous Manner, Shiverings have been observ'd thro' the whole Course of the Fever; and I sound it remarkable in one who

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Practical Observations on the

had Petechia and a Rash also upon her; but what is most strange is, that they feel hot to the Touch, whilft they complain of Cold themselves: A critical Shivering appears but once; but this returning fo frequently, shews a permanent Cause lodg'd within; and as Shiverings are but the Effects of Irritation, it appears the Blood is full of Salts, which stimulate the Fibres of the Muscles into Convulsions; and Fevers are easier or more difficultly cured, as the Juices are less or more deprav'd. It is certain then, that we must be very diligent in such a Case; we must watch every Turn the Fever takes, every minute Symptom must be attack'd, the Remedies must be thrown in plentifully; we must not however load the Patients with Weights of Cloaths; the Nature of the Fever must be found out, if not a priori, at least a posteriori; and in order to this Discovery, the tentative Method is the only one that young Practitioners have to rely on; I mean, they must try whether Volatiles, or what kind of Remedies agree best; and the same must be observ'd as to their Diet.

In the Beginnings of Fevers we often find the Pulse unequal, but mostly small;

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it is a Discouragement to young Practitioners, when they fee a plethorick Person in a Fever, whose Pulse is small, they wou'd draw off Blood, were they not afraid that the Pulse will not bear this Discharge; and this Perplexity is heighten'd whilst they are under an Apprehension of the Small-Pox; for tho' Evacuations are univerfally approv'd in beginning Fevers of any Kind whatever, yet if contrary Indications appear, young Physicians cannot prevent their Fears: Wherefore to abate their Doubts, I shall give some short Cautions to guide their Judgments. In general, small Pulses in the beginnings of Fevers are oppress'd and not depress'd ones; wherefore if any Symptom requires Bleeding, such as Pain of the Head, of the Back and Head in the Small-Pox, a full Habit of Body, a Quinzy, a Peripneumony, Inflammations, Pleurify, great Giddiness, troublesome Catarrhs, and the like: I fay, if any of these, or other grievous Symptoms afflict the Par tient, it is necessary to draw off Blood, for affoon as the Quantity is abated, the Fluxi's on also is lessen'd, the Symptom is taken off, and not only does the Pulse grow stronger, but the Fever encreases; this is

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experienc'd in every Day's Practice; the Reason of which appears to be an Avocation of the Liquid of the Nerves from their Duty in the Heart, to the Parts afflicted with Pains and troublesome Sensations, to which they are hurried with a good deal of Impetuofity, and not a real want of it; and moreover in fuch a Confusion, it may happen, that the Nerves of the Heart are contracted and convuls'd, which Contraction straitens the whole System of the Arteries, and hinders their Expansion or sufficient Dilatation; but as the Pulse is at this Time unequal, that is, sometimes small, at other Times great, especially upon Remission of the Symptom, it is really an oppres'd Pulse, and argues a Quantity of Humors, which the Spirits cannot rightly circulate, and which therefore ought to be drawn off; and moreover, where we find that nothing preceded the Fever that has weaken'd the Patient, we have just Reason to answer any Indication requiring Bleeding: Natural Discharges of Blood, whether by the Hemorrhoids or Menses, having run their Course just before a Fever commences, are no forbidding Circumstances, where the Symptoms require Bleeding; for these being ing natural, we may as well omit it upon a natural Discharge of Urine or Stools, which to any mean Capacity must appear a ridiculous Apprehension; I would be rightly understood, and therefore I repeat it, that natural Discharges don't hinder Bleeding; for fo long as they keep within the Bounds of Nature they are beneficial; if indeed they are immoderate, and fuch as the Patients have not been us'd to, then the Physician must inquire how much they did exceed, and must either omit Bleeding, or abate in Proportion to their Excess: And as to the Quantity to be taken off, we are to weigh well, whether it will contribute to a total Eradication, or whether there be any further Consideration, to which the Discharge must be proportion'd: In Fevers, Bleeding only eradicates the Symptom, but not the Disease; this must be treated in another Manner; the Symptom being only a Part of the Disease, Bleeding is a partial Cure. All Fevers have or ought to have their Crisis, and each has its peculiar Port, by which the morbid Matter will or shou'd pass, when it is rightly prepar'd and digested; for Example, the Small-Pox, is, or ought to be thrown into the Skin in Puftules. B 3

tules, the Measles in Spots, the Plague in Buboes or Sweats, Fevers in Sweats or Diarrheas, and fo forth; and as this Crisis is perfect, or ought to be fo, it takes off the whole Cause; Bleeding then, (and the same must be understood of any other Discharge) is not fitted to take off the whole Cause, it only takes off some Impediment to a regular Circulation; which being done, the repeated Rounds, the Blood takes in the Vessels, attenuates it to a certain Pitch, the Fever abates, the morbid Matter grows heavy, the Juices themselves grow thinner, and fuffer this deprav'd Matter to fettle thro' proper Emunctories; or Nature throws it out of the Body, and the Patient, who before was toss'd in a Storm, as it were, becomes calm, all Symptoms cease, the Fever goes off, Sleep and Appetite return, and Health is recover'd. So that we are so to proportion our Discharges, as only and barely to take off the Symptom, and then we leave Nature to herfelf, or affift her, to accomplish her critical Efforts: In which we ought to follow the Bent of Nature; that is, if the Matter be thrown off by Sweats or Diarrhoeas, or by any other Discharge, we must only be Spectators, till the th

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A Physician may well enough distinguish the Nature of the Fever by the Pulse, altho' he shou'd neglect other Symptoms or Appearances; but he will be more accurately inform'd, if he takes Notice of every minute Accident: For Example, we know well enough by the Pulse, whether the Fever be flow and malignant; but if we obferve the Patient's Breast, and perceive Petechie there, we are then more affur'd, that the Mixture of the Blood is very unequal; we are in our Inquiries then, to have a particular Regard to any Prejudice done to the natural, vital, or animal Functions, because we will then be acquainted with all the Disease, and we shall know of what Nature the Disease is much better, and be able to make a furer rognoftick, as well as to ascertain the Nature and Quantity of the Remedy: The Pulse may be as low in a common Malignant Fever, as in a Petechial one; but when we perceive Spots, we are well affured of the Degree of Depravity, of which we are not in the other Case. They shew, as Physicians term it, the Quantity of the Cause, and consequently direct B 4 us

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us both in the Prognostication, and in the Doses of the Remedies to be given or apply'd: So that tho' the Pulse will inform us of the Blood's Motion, of its Quantities, and of the Quality of Blood, yet we are to inspect also into other Functions, to discern how greatly Nature is deprav'd: It is therefore one of the first Inquiries made by Physicians in Fevers that promise ill, to look upon the Patient's Breast, to see whether there be no Spots there, which help them to pass a more certain Judgment: For as it feldom happens in fuch a Cafe that Nature makes any Efforts for herfelf, which we know by daily Experience, there feldom happens a Crisis in such a Fever; and therefore we ought not ordinarily to expect it: Our common Method then is to make a Trial by gentle Means, proper for the Cafe, whether the will put the Blood upon attempting a Separation of the morbid Particles or no; if not in a reasonable Tract of Time, then are we to trust no longer to such feeble Measures, but, almost without Discretion, to proceed to Extremes, in order to keep the Blood's Motion on Foot, which will inevitably otherwise stand still; nor must we deser these Measures too late, since

every Hour advances these Concretions egregiously: I speak of such Petechial Fevers, as we in England are mostly liable to, that is, the flow Petechials. Dilution, with warm and moderately ffrong Sack-whey, with Tea, with thin Mutton or Chicken Broths, with Water-Gruel and Wine, and fuch like are necessary; for without Dilution, in a proper Quantity, no Fever will yield, even to the most accurately adapted Remedies; because whether the Blood be too much rarefied or condens'd, Liquors, justly fitted to the Case, do render it more fluxile, either by hindring its turning into Bulla, or by dissolving the too strict Union of its Parts. Next to Dilution must we attenuate and stimulate; wherefore let a sharp Blister be apply'd to the Pole immediately, which must be follow'd by more next Day, if we find little Advantage by the first, and these by more, if the next Visit affords no perceptible Amendment; and fo on, if the Pulse, Heat and Water, shew no Efforts made; at the same time give inwardly Pulv. e Chel. C. C. Lap. Contray. Lap. de Goa, Conf. Alcherm. Raleighan. Sp. & Sal. Vol. C. C. Sal. Armon. Sal. Vol. Oleof. Spir. Lavend. Julap. Perlat. with volatile

tile Spirits; apply also Emp. Solearia, and all proper Stimulants to keep the Blood moving as long as we can, till it begins to part with its morbid Particles, which we must carefully regard: When therefore by fuch means the Blood moves better, the Pulse grows stronger, the natural Heat returns, and the Urine begins to fublide, we must throw in a gentle Cathartick to move the Patient twice or thrice; and if it be necessary, and nothing contradicates, we must give a mild paregerick Draught made up with Syrup of red Poppies to allay any Commotion that may enfue and procure Rest; if the Sediment continues, we must repeat this Method at proper Distances; and thus shall we carry off all the Fever, and prevent any Relicks, which wou'd be apt to rekindle a Fever worse than the first in this Respect, that the Patient wou'd have the same Course to run over again, with a much smaller Stock of animal Spirits to manage it.

It is a certain Sign of some Convulsion upon the Artery, when the Pulse is small and weak, for the Nerves surround them; and they being void of a sufficient Quantity of animal Spirits, grow dry and shorter;

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fo that the Arteries cannot be extended to any Pitch, wherefore they are in a Manner rigid, and cannot then be thrust outwards; such a Pulse seels generally hard under the Finger, and is called a Convulsive Pulse; it requires great Attention to distinguish it, and a nice Judgment to remedy it.

IF we would act reasonably in Fevers, we must have a great Regard to the Heat of our Body: This Heat is a Consequence of the Velocity of the Blood's Motion; and as this Velocity must be justly regulated, so the Heat depending thereon will answer, as it is encreas'd or diminish'd. To encrease this Velocity, we stimulate and administer Volatiles, and to lessen it, we give watry Liquors and neutral Salts, or even Acids. This being abated or heighten'd, we grow cool or hot. The Matter standing thus, we are to observe, that the natural Heat of the Patient is strictly to be enquir'd into in Fevers, whether that be done by a practical Observance of it, or by a graduated Thermometer or by Relation; for we are to keep them in fuch a Degree of Heat, thro' every Stage of the Fever, as approaches nearest to Nature: If therefore, it should happen to be below this Standard, all the Symptoms arising from

from thence will indicate attenuating, disfolving and heating Remedies; for Example, suppose a Patient, afflicted with a Head-ach, Delirium, Convulsions, or any other Symptom, with a small Pulse and little Heat, or Heat below what the Patient in Health was accustom'd to, as this Symptom depends on Stagnation, and as this is caused by cohering Blood; and this again, by Evaporation, or some heterogeneous Mixture. Stimulants and heating Remedies being level'd against the whole and original Cause, they must alleviate or cure the Symptom; for whatever is fitted for taking away the whole Cause, when justly proportion'd, must necessarily ferve to abolish a Part of the whole. If Patients are feiz'd with inflammatory Symptoms, fuch as Phrenzies and Inflammations of the Lungs, or barely with Fevers, attended with a scorching Heat, or such as they never were naturally subject to, and should at this Season complain of Pains or Spaims, the Velocity of the Blood being much greater than in Health, their Heat by Confequence exceeds the natural in an eminent Degree; and is therefore to be abated by Bleeding, Gruel, Water, small Liquors, and every thing that arrests the Blood's Motion:

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tion: The Standard then is Nature itself, to which we are to reduce the Heat of the Patient; we are therefore diligently to find this out, for fear we exceed, or fall short; or, however, in Default of this, we may reduce it to fuch a Pitch, as that no Symptoms remain; for these are certain Tokens of an Excess in Quantity or Quality, (to which we may refer Motion). There are, however, certain Fevers where a small Excess of Heat is allowable, namely, in the Small-Pox the Puffules inflaming, added to the Heat of the Fever that threw them out. produce a greater Heat than would be allowable in any other common Fever; for here a double Cause concurs; the one from a Commotion arising from the beterogeneous Particles in our Juices, and the other from the Pain of the Pustules; and altho' these very different Causes produce the same Effect, yet the Remedy answers to the Caufes, and not to the Effect. Opiates are commendable and necessary in the Symptomatical Fever from Pain, but Alexipharmacks in that from the Heterogeneity; and altho' we have not always Success in this Disease, yet it is certain that Art has as yet found out no better, or other Remedies, than what will answer

answer these two Ends: Hence, sometimes Bleeding, Emulsions, Sal Prunel. and cool Liquors, even the Hydrogala Fulleri, or Tinet. Rosarum, are advisable; and also Blisters, Pulv. Lap. de Goa, e Chel. C. C. Margarita, Sal. Volat. C. C. Theriac. Andromach. and fuch like, conduce very much to keep out the Pustules. Venice Treacle answers all the Intentions, namely, of expelling and alleviating the Soreness and Pain, and of procuring Sleep; and it is therefore much used in this Disease, if nothing greatly contraindicates. Dr. Morton in particular is fond of this Remedy, where the Patients have no comatous Symptom upon them; and were not his Reason for it somewhat precarious, he is much in the Right to cry up its Virtues; the Soreness abates of Course if we sleep, and the original Fever abates, if we promote Perspiration; and if this is promoted, or delign'd to be fo at a proper Season, whenever it does not ensue, fome other proper Discharge succeeds it. The Salivation then will be promoted by it, because when the Blood is attenuated in a proper, and convenient manner, if Sweats of Perspiration don't or can't ensue, some other Discharge is attempted by Nature. Thus Opiates, Opiates, as Diaphoreticks, repromote the Salivation, because the Pores can't perspire: Thus Dogs slaver, because they can't sweat.

WE are carefully to diffinguish between essential and symptomatical Fevers; for in the latter Case, taking off the Symptom, is the adequate Cure of the Fever; whereas in the former, the Fever will be found to fublift, when the Symptom disappears: If, for Example, a Patient labours under a Pain in the Back, a Fulness and Distension of the Belly, which is not better'd by Glisters or lenient Purges, a troublesome Pulsation, and Pains felt between the Back and Belly. and a flow Fever; this Fever depending upon an inflammatory Obstruction in the Mesentery, must be attack'd with Bleeding, with nitrous Medicines, and with Diluents; we must make Use of Fomentations to the whole Abdomen to disperse the Matter lodg'd, and by these Means the Inflammation being greatly abated, and the Fluxion being quite allay'd, the Fever which was an Effect of this Inflammation vanishes of Course: But if a Fever having preceded, and having thrown off Part of its Matter into the mesenterick Glands, should be too freely treated by too large a Discharge of Blood: Blood; we shall cure the mesenterick Inflammation indeed, but it will be a great Surprize to find that we have embaras'd the Affair, and hardly have lest Spirits sufficient to work out a Crisis, which must ensue, or the Patient is cur'd of a Symptom and lest to die of his Disease.

WHEREVER the Fever is prior, and by an unseasonable use of Fruit, or Cucumbers, a Cholera succeeds; it eclipses the Fever in fuch a manner, as not to be perceiv'd by vulgar Practitioners; nor are they appriz'd of the Matter, till they are amaz'd to find their Patients, recover'd of the Cholera, dying of a Fever. There is great Venom lodg'd in cool and unripe Fruit; they are four and gummofe, and hard to digeft; they breed gross and unwholsome Chyle; they lodge long in the Intestines, and putrify there; after which, they exert their Force and stimulate strongly to Stools and Vomits. If Cold stops our Perspiration at the same time that these corrupt Juices act their Part in the Bowels, the Fever and this Disease may either reign at one and the same time independently on each other, or it may be a Symptom of the Fever: Be this how it may, their being coeval or subordinate does

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not alter the Method of Cure; for both must be regarded with this Difference, that the vomiting and purging from a Fever must be kept within Bounds only, if it be critical, taking Care of the Fever at the same time; but if it be independent on the Fever, we may boldly curb it, after a sufficient Discharge is made. I need not descend to the particular Method of curbing a Cholera, fince Opiates and Restringents are the only Requisites for the stopping it. If Cholera's alone be dangerous, what must be pronounced of Fevers accompany'd with them. In short, it is one of the most dangerous Symptoms that can attend a Fever, and requires both Haste and Judgment in its Res lief. Few or none recover of fuch Fevers. fave those who have consulted the best Advice in Time: But that none may be difappointed, I shall briefly rehearse the true Method of Cure, supposing nothing farther to afflict the Patient besides the Cholera and Fever. If you find the Patients to have a quick, frequent, tho' a low Pulse; if they first shiver'd, or were chilly, and then grew thirsty and hot; after which they grew sick at Stomach, and fall a vomiting and purging; then it is evident, that the Fever pres ceded. Sig

ceded, and that the Cholera is a Symptom of this Fever. Few Fevers attack us without indicating some Discharge; and if an Evacuation is attempted by Nature, we must look on for a while, till we judge a fufficient Quantity is thrown off; wherefore we make the Patients drink a Gallon or two of Chicken Broth unfalted, to encourage the Discharge: When we have done this, we are no longer to promote it, but we must give Cordial Bolus's made up of calcin'd Hartshorn, Coral, Crabs-Eyes, Pulv. e Chel. C. C. and Conf. Fracastor. as well as Cordial Julaps, in which Opium must be a chief Ingredient, in order to change the Sharpness of the Stomach into a Mildness, and to allay the Spasms, and to support the Spirits; these at first will not readily succeed, because the Tendency to the Bowels is great; and if, when the Vomiting is in good measure curb'd, the Purging should still follow the Patients, we must throw in Glifters of smooth Parts, especially of fat Broth unfalted; after which, we must add Diascordium to them, in order to complete the Cure; and when we have either quell'd the Evacuations, or fo lessen'd them, that there is nothing to be fear'd from them, then

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Pair gies. are we at Leifure to have a full Regard to the Fever, to bring it regularly to its State, and to a Crisis; which in general is done by testaceous and volatile Remedies, because fuch Fevers are mostly of the slow Kind, from the great and excessive Secretions that have preceded, and from the Quantity of Spirits lost upon such Occasions.

THE properest Diet for Fevers is thin Broth; because, if we give them too strong Broths, and the same may be said of Jellies, it is not diluting enough, it is a gross Lympha, and is hardly fit for keeping the Circulation on foot; whereas watry Liquors supply the Discharge of Perspiration, which is very great in Fevers, and yet support the Spirits: For want of a fufficient Quantity of Fluids, and by overfeeding with Jellies, the Blood becomes too dry, and turns cohefive; After which, we are to expect no Criss, no regular Despumation; in the room of these we meet with Difficulties of Respiration, great Thirst, or dry Tongues; comatous Deliria, Lassitudes, Ischuries, In-

flammations of every kind, Rheumatick Pains, Concretions, Extravalations, LetharWeakness, pale Urine, weak Pulses, and an entire Stagnation of the Blood.

Persons are more or less subject to take Fevers, as their Fears or Constitutions determine them. Phylicians are so accustomed to attend the Sick, that they are exempted from the Apprehensions common to all those who are not us'd to visit: And that they are feldom infected at all, they owe it to a Stroke of Providence; for they receive Steams of fuch different Natures into their Lungs, that one Effluvium is either a Remedy for another, or their Fibres are so accustom'd to receive them, that they have no Effect upon them at all: It is possible enough to accustom ones self to any Poison, so as to receive no Damage by it; this is experienc'd among the Turks in taking of Opium, where a large Quantity of the Massac, or most effectual and fine Opium, does them no Harm: Our own Climate has afforded us many Examples of this Nature; I knew a certain Lady who took at last one Ounce and a Half of Liquid Laudanum at a time, to alleviate her spasmodick Pains; another I was called to, who had been accustom'd to take two Drams in a Day, and who cou'd not forbear its Use even when she I

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was dying. Custom in every Instance of Life produces an Infensibility: And I can't therefore but look upon it as a Stroke of Providence, that our Fibres should grow insensible of such dangerous Attacks upon them: And young Physicians ought to be very cautious when they begin their Practice, to use all the Preventives commended, till Custom has hardened them; Liquors abounding with neutral Salts are the most eminent for this purpose; wherefore the Elixir Vitrioli or Elixir Proprietatis, made of an acid Spirit, are not only recommended, but are of real Use in such a Case: The Blood upon the receiving morbid Effluvia into it, is wrought up to the same State the Sick was under; but these Salts being taken down, hinder these irregular Expansions of the Fluids. It is reported by Wedelius, that a certain Count of Germany made use of an Arcanum to prevent the Small-Pox, which, he fays, was a Mixture of Spirit of Hartshorn, and of Spirit of Salt: I need not expatiate upon the Reasons why natural Salts are the most likely to prevent Fevers, fince they are so useful in them: I shall only add that of these, the Acido-falines are the most beneficial; because they lightly incrassate C 3 the

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ne as the Fluids, and hinder them from falling into præternatural Commotions: I only advise a moderate Use of them, because to accustom our selves too much to them, we might produce Obstructions, and many other Inconveniencies; when we prevent Putresactions in our Humours, we do all that is requisite.

It is fomewhat remarkable, that upon Bleeding, we often find the Fever to appear more evidently than it did before; fo that if we would know whether a febrile Pulle is the Effect of a Fever, or some febrile Disorder, the Lancet frequently determines the Doubt; for as an Oppression of the Pulse eclipses the Artery, so does it hinder those Occursions of heterogeneous Particles in the Blood; as also the Vessels being render'd almost stark with too many Contents, the restitutive Force of the Arteries is diminish'd, and therefore the Blood is but weakly driven forward into them; and accordingly the Heat that attends Fevers, is proportionable to the Attrition of the heterogeneous Parts against each other; for as in the Case before us, the Blood moves flowly on it grows thick of Course, and sticks to the Walls of the Vessels: This State and

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and Condition of the Blood is not at all fit to make the Patients hot, but on the contrary, they are cool, their Pulse is small, or rather oppress'd, their Heads ache, they breathe short, they feel an ulcerous Soreness, and heavy Pains in their Back and all over them, and Sickness as well as an Anxiety or an Oppression of their Breasts seize them; because as the Blood does not go briskly forward, it is apt to be deposited, and almost to stand still, wherever it goes; with this unobserved Remark, that the Blood does not stop in any other than the evanescent or lymphatick Arteries; whereas in the Veins it is apt to stop at the Valves, or even at any Sinus or Curvature: Witness the Case of an Anxietude, where Patients feel an unexpressible Trouble on the right Side of the Breast, which makes them restless, and causes them to conceive something hard to refide in that Spot; when it is the Reflux of the Blood from the Liver up to the Heart stopt at Lowers Sinus, which Impediment to Motion is fometimes fo great, as to occasion a Fainting or Swoons, and for which we are oblig'd to draw Blood off, to give the most volatile Remedies, to hurry forward the Circulation:

tion: This Evacuation, namely Bleeding. has this Effect; when such a convenient Quantity is carried off as unloads the Veffels, they contract their Dimensions, and upon the Diastole and Systole, they take a greater Range than they did before, and consequently compress the Blood more strongly together; their elastick Force being restor'd, they mix the Particles together more intimately, fo that the Friction of the Parts among themselves becomes infinitely greater than before; and the Heat depending on this jumbling together of the Fluids, the Fever therefore shews itself immediately upon such a Discharge: But we must take Care how we proportion this Draught of Blood; for if we over-do it, we weaken the Spirits, and leave the Vellels flaccid, and make the Case much worse than we found it. Judgment is required to direct us in the Quantity to be drawn off; and if we don't draw off enough, we do no Service to the Amendment of the Lentor, nor can we with Safety administer volatile and attenuating Remedies; because if we do, the Consequence will be the Rarefaction of the Blood, which indeed is the genuine Indication; and the Yessels being already too full, they

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they will be greatly distended, and we may endanger a Rupture of them: And this is fo far from being an imaginary Fear, that I have often feen it happen upon fuch a Miftake; more especially, if the Patients have for any Time before been subject to Spittings of Blood, or any other customary Difcharges of it. Thus have I feen Women fubject to an overflowing of the Menses, or Men troubled with the Piles, who have been thrown into these Fluxes by such a Mistake in Practice; whereas, if a fufficient Quantity had been drawn off, a moderate Use of Attenuants produced no fuch Effects, but on the contrary, the Blood has been regularly circulated, the Fever has been gradually augmented from that Minute, the State of the Fever has brought on a regular Crisis, the Fever has terminated as it ought to do. The Beginnings well managed, give us a pleafing Prospect; but on the contrary, a small Mistake at the Beginning spreads into very dismal Effects, as one Circle, from a Stone thrown into a River, grows to a vast Extent and Number. As we have shewn, that Bleeding causes a Fever to appear, so we ought to endeavour to ascertain the Quantity of that Discharge, on which so many good

good or bad Effects depend. When the Fever appears, it shews its Specifick Nature; if then, by the Largeness and Strength of the Pulse, as also by the Degree of Heat, it be of the burning Kind, or, if you please, if it be a fanguineous Fever, and the Patient be full and young, and any Symptom requires it, we may draw off by Turns, and proper Distances, from ten to twelve Ounces at a Time; and we may amount fometimes to near forty Ounces in some few Days, and yet secure a Crisis at last, by judiciously supporting the Spirits. It is true, this Quantity is not usually taken off in this Country, and great Caution must be made use of; for we must wait to see how each Bleeding affects the Strength and Pulse, before we attempt it again: If, for Example, an Inflammation of the Lungs follow a Fever, there is no doubt but we must without Delay draw off a good Quantity of Blood; and if, the next Visit, we should still find the Difficulty of Breathing, the Heat, and the Quickness and Strength of the Pulse, as well as of the loco-motive Faculty, to perfift without any Diminution, tho' the Diftance of Time should not amount to above fix Hours, yet the first Quantity not having fuc-

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fucceeded, we must immediately order more to be drawn off; and this very Rule will hold for a third, and even a fourth Venefection. It is true, that in this Country the Fevers of this kind are more rarely met with, than in warmer Climates, and they Abroad are more lavish than we can be: but we even are feiz'd here with fuch heterogeneous Symptoms, as do require it; more especially when young People have fallen into Fevers from excessive Drinking of Spirituous Liquors; and if we are not very nimble in our Proceedings, great Hæmorrhages ensue. Here also plentiful Draughts of small Liquors, fated with Saltpetre, are conducive to put a Stop to the too rapid Motion of the Blood: By this Method we prevent fatal Deliriums, which end in an Extravalation of Blood into the Substance of the Brain, for want of such a timely Discharge, and of such weak Liquids. I have feen the Brains of fuch Perfons, upon Diffection, loaded with Blood; every Vessel, which could not be feen at another Time, has now appear'd stretch'd, tho' extravas'd Blood had been spilt out at every Extremity of them. The fame have we feen in the Lungs, Liver, Stomach, and elfe-

elsewhere. according to the Part that was attack'd. I would not however be underflood to speak indiscriminately; for some, if not most, of our Fevers do commonly not admit of above twenty four Ounces in all, altho' they be of the fanguineous and ardent Kind; this Quantity most usually abates any inflammatory Symptom; I fay abates, for it is not advisable to take off Blood, till the whole Symptom disappears, it is for the most Part sufficient to alleviate the Complaint, till they are much better, for a small Remainder may be attack'd with Alteratives; and if we discharge, till we endanger a Crisis, this is a Fault not readily amended: And moreover, as 'tis easier to take off, than to supply Spirits, we may, if requir'd, fooner draw off more, than amend that Error. There is a determinate Degree of Motion demanded for a Crisis; if the Blood moves a little faster than it should, it is always in our Power to abate that Velocity, but it is not always in our Power to haften it to fuch a Degree as we wou'd. At the Time of a Crisis, we are oblig'd to be cautious in Bleeding, lest we interrupt Nature's Work; however, even at that Juncture, and more especially in such eruptive eruptive Fevers, as have their Crisis pretty early; for Example, in the Small-Pox, whose Crisis is, or ought to be, on the fourth Day, we may with Advantage draw off Blood, where the Fever is very high, and a great Inflammation attends; for what forbids us in a phrenetick Delirium, with a high Fever, and a high and large Pulse, to draw off a fufficient Quantity of Blood, altho' the Pustules are already breaking forth, whatever the Ignorant fay to the contrary? Is not this Practice allow'd of Abroad? Is it not encourag'd at Home? Is it not done with Advantage to the Patients? And does not Reason favour the Practice? For my own Part, I have been amaz'd to fee this vulgar Error fo much favour'd by Persons otherwise eminent enough! I take it, that a Physician, who wants Courage to put Experience and Reason into Practice. deserves Reproach; his Advice ought no fooner to be ask'd, than to be put into Pra-Ctice; he has a fair Plea against the Recufants, and may justly attribute every Failure to their Obstinacy. In vam to sow large M

As to the most proper Time of Bleeding, I have the following Reasons to confirm me, that the Fit is the most convenient Season; namely, namely, because the out of the Fit we can readily know all that relates to the Quantity of Blood circulating in the Vessels, yet it is not possible to know the Velocity of its Motion in the Fit, till we actually fee them under one; and this feems with good Grounds to be the fettled Opinion of the Vulgar, which has been handed down to them from our Ancestry of Physick, when they feem willing you should not bleed them, till you have feen them at the worst? We have feveral Indications to pursue, of which this is one of the chief: The Velocity produces the various Modes of Pullations, and it originally springs from the Qualities in the Blood; for as the Blood is stock'd with Salts in a more or less eminent Degree, it more or less irritares the Heart to Systole's, and occasions the greater or less Frequency, the greater or less Stroke, the Hardness or Softness, and other Modes of the Pulse. The Heat also is a Consequence of this Velocity: Now as the Quantity and Velocity are better abated by Bleeding, altho' by different Means, yet it may justly be affirm'd, that a Physician must be more fully determin'd in his Judgment, when both are in View at once; and when we are render'd capable of namely. knowknowing how great a Nifus the Particles have to each other, or how near they are polited to each other; as whether they are not placed fo nearly to each other, as to be compress'd and made to crowd one another, and render'd thereby too cohesive; or whether they are not fo disfolv'd, as to endanger a Rupture of the Veffels: Our Care must be fo to proportion this Discharge, that the contractile Force of the Heart may be somewhat lessen'd; that is, such a Quantity must be taken off, as the Heart may not fill fo foon as before; for as there is a Restitution ent or Elastick Force in our Fibres, especially in the Heart, Lungs and Arteries, it must follow that the less is the Quantity and Velocity of the circulating Mass, the later will the Heart be before it is full, and the later then will it recoil or contract, and the flower will it move. The Reader may neadily fee, that I suppose the Heart to contract itself only, when it is full to such a Degree, or when it has very irritating Particles in it, which produce an equivalent Effect with that Quantity. The first Case is discoverable by the Fulness and Hardness of the Artery, when it is felt; and the latter by the Jerk or Quickness of the Pulse; and Cafes both

both are known by a full and quick Pulse:
The Quantity then to be taken off by the
Lancet must be greater, as one or more
Causes do indicate.

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This present Season has afforded many Examples of stubborn Eruptions; for which Catharticks of the common Kind have little avail'd; they are rather of the dry Kind: For, continuing the same Supposition, which I have all along held, the Blood is not ferous, it is rather void of Water, it has been thickned by the Heat of the Weather, and the whole Aggregate is faline and viscous; it is apt therefore to stick in any capillary Veffel, and to erode, or however, to occasion an Itching, and as the Blood is equally corrupted, this becomes universal; and it is diversify'd according to the Nature of each Person's Constitution, no one having the like Number of Particles corrupted, or no one having the exact Degree of Corruption of another: Wherefore Catharticks ought not to precede or lead the Van in Remedies. the Blood must first be well diluted and prepar'd, to enter into the minutest Channels, before we attempt to carry it off. In an Affair of greater Consequence; for Example, in hyfterick and hypochondriack Cafes: diod

Cases, we are always admonish'd, and 'tis agreeable to Experience, to avoid giving Catharticks, till other Remedies have been made Use of, because we find that they give Colicks, and raise Inflammations of the Bowels, because the Juices being too gross to enter into the Glands, or however to pass them, they inflame without Discharges; and as in that Case the Blood is too adust, so is it here; what therefore does not agree in that Case, cannot but disagree in this; fuch a State of Blood is fit to give Birth to all scorbutick and stubborn Emptions; heating Remedies are very improper, they contribute to drain the Vessels of their due Quantity of Water, they irritate and stimulate all the secretory Ducts into too frequent Oscillations, and invite them, nay provoke them, to part with what is most fluid and thin, and leave these fierce Salts behind; these Salts impacted almost irrevocably into the smaller Orifices, don't cease to ravage the Parts, either by contracting them unfeafonably and constantly, or by eroding them; if many of them fix upon any one Part, then an Inflammation and an Abscess ensue; but if they are dispers'd all over the Body, then we find numerous

merous little Inflammations and Abscesses: The difference is plac'd in the Distribution of these morbid Particles; for where the morbid Juices are juxta-posited, they produce but one large Inflammation; and if on the contrary they are equally divided among the Vessels, then these Inflammations are rais'd all over the Body. If in the prefent State the Blood over stock'd with Salines fhould rarefy the Blood too much, as may be the Case of great Numbers, which is easily known by the febrile Pulse and Heat as well as Thirst, yet at last the Blood will be brought to be too gross from the Evaporation of the serous Parts; so that in either Case we are to have Recourse to Diluters, and gently attenuating Remedies, whether in Fevers or out of them; all watry Liquors dilute and melt the Salts that hold the grofs Particles together, whereby the Coagulum is foftned and fitted to pass thro' the fmallest Tubes without cohering, they carry off what they melt down; and by Salts more agreeable to our Nature, the Blood is supply'd with such Remedies as gently irritate the Parts, for some Stimulation is always requir'd; the Blood will thus be reduc'd to its natural Confistence, the fecreto-

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fecretory Ducts will be no further stimulated, than is requisite, the Secretions will be natural in their Quality and Quantity, all the miliary Glands will be fcour'd of their exotick Salts, and be fupply'd with fresh of a natural Temperament, the Obstructions and all their Consequences will be open'd and prevented, the preternatural Commotions and Struggles will be allay'd, and Health will be reftor'd. The nitrous and vitrioline Salts bid the fairest for these Effects: for they by Experience are found, when justly diluted, to cure Eruptions; thus we find Lambeth-Waters, for Example, and gently chalybeated Waters to be excellent in their Kind in these Eruptions, and more particularly the former: And whereas these Eruptions do mostly succeed Fevers, such Remedies are then very proper; because, as the Fever has render'd the Blood thick and viscid, by the Sweats and large Discharges of Urine; they dilute it, and render it fit to pass all the Emunctories, and correct those picquant Salts, envelop'd in the Vifcid, and hinder them from producing their Effects, or correct them when they have caus'd their Eruptions.

As to eruptive Fevers, we find their Symptoms differ according to the Times of their Eruption; but all of them bring on Oppressions of the Breast a little before they break forth, which are reliev'd by a full Eruption of the Spots or Pustules. There is a certain Specification of their Matter, producing Symptoms regularly and nearly alike, and making them to appear at a certain Period of Time: These almost inexplicable Phanomena do oblige me to descend to some Particulars, which will elucidate the Affair. There is no doubt, but Diseases are fram'd of Matter as essentially different, as are the Particles of Plants, which cause different Odours and Tastes; and as the same individual Principles in these, variously modified, do give a different Odour in two Plants, fo does the same Blood afford Degrees of Cohesions or Solutions; and as the same Particles, variously order'd, give a different Smell to Rosemary and Thyme, so the same Matter, differently modell'd, produces the Small-Pox and Measles. The etherial Oil, blended in a peculiar Quantity with the effential Acid and Water, as Lemery observes, give the Taste peculiar to Turpentine; this is by some call'd the Spiritus Rector; and

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in like manner the various Sorts of Eruptions in Fevers are specificated by a Digestion in a Degree to us unknown, that is, the Quantity and Degree of Digestion is to us unknown. Odours and Tastes may be lost or changed by bare Infusion, as Experience informs us; for Mustard-Seed, mix'd with Cyder, and fermented, gives to it the Taste of Garlick; Hind's Tongue, infus'd in Liquor, gives to it the Taste of Florentine Orris; Asarabecca Root, pulveris'd and mix'd with the Phlegm of Vitriol, will smell like Spikenard; and we observe in making the Salt of Steel, that as foon as the Water is pour'd on to the Oil of Vitriol and Steel, a Smell like that of Garlick taints the Room: And as the fame Bodies, variously digested, or concenter'd and blended, give Concretions of differing Degrees, more or less hard, and more or less corrosive; so fares it with the Mass of Blood, which has one Sort of Cohesion in the Measles and Scarlet-Fever, another in the Rash, another in the Small-Pox and Buboes, and another of a different Degree and Nature in Carbuncles: In the first, it rifes no higher than the Cuticle, and fades away in little Scurf; in the fecond, it appears above the Surface of the Cuticle, and grows red,

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and then scurfs off; in the third, it appears above the Cuticle, inflames, suppurates, and fcabs off; in the last, it swells not much, but foon proves Caustick, and corrodes the Skin, and mortifies it: But all these are Obstructions in the Lymphatick or Evanescent Arteries, produced from the Oils and Acrimonies of the Blood, which, by various Occurfions and Commixtions, are made to cohere in innumerable Degrees. It is hardly posfible fo gross Blood, as this Mixture makes, should be carried thro' the Lungs without sticking to and loading them, which therefore makes them stark, and unfit for Inspiration; but they only are not loaden, for all the infpiratory Muscles also partake of this concreted Matter, and it nearly stagnates hereabouts: All the volatile Remedies, all the Stimulants, and all the warm Diluters. are of Use in these Cases. Hence is it, that in fuch Oppressions the common Methods are these, viz. we use Spirits of Hartshorn, Spirit of Lavender, Pulv. ad Guttet. e Chel. C. C. Sal. Vol. Cornu Cervi, Sal. volatite Oleofum: We apply Blifters to different Parts, and we cause them to dilute with thin Broths; because the Volatiles act upon the Fluids by attenuating, and on the Solids by stimu-

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stimulating them to more frequent Contractions; because the Diluters get in between the Interstices of the concreted Matter, and hinder as well as dissolve their Cohesions; and because they dissolve the Salts, which are the Bond of Union; and lastly, because the Bliffers do strongly stimulate and contract all our Fibres, and do thereby push the Juices forwards, and hinder their standing still, which is always the last Scene in these Obstructions, when they are numerous and painful, or where their corrofive Faculty destroys the Circulation, or endangers its Courfe.

I can't conceive how some, otherwise learn'd Physicians should deny critical Days, fince we daily find Fevers to terminate by them; and indeed, whoever pretends to carry Fevers off without waiting for some Degree of Concoction, makes an irregular Harvest, and mows down nearly all he pretends to Cure: Whoever escapes under such a Practice is of a happy Constitution, and wou'd have had a much fairer Chance, if he had fee'd his Physician for standing still; because such a Method is inflicting a Symptom at Pleasure, and he meets with Rubs, which are only Creatures of his own making. The

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The whole Body of Physicians, that have found Judgment, allow of critical Days; and Practice shews there are such; but in our Climate there is no Certainty of the Time; for Fevers vary in every Individual, according to the Constitution; the same Seafon, the same Sort of Fever, and the same Symptoms don't determine the Time of the Crisis; for in some we shall find the Fever will tend to Maturation in feven Days, in others in fourteen; and in others again in thirty: So that altho' every Fever is ended critically, yet not in the fame Time: The Time is chang'd in a rational Way of Proceeding, by the Methods, or the Symptoms that invade them; if no Symptom afflicts the Patients, the Time is foreseen by the Degree of Motion in the Juices, for a high Fever foon terminates in Death or Health, whereas a flow one takes up a longer Time: A high Fever, which hurries on Inflammations, requires a long Time to allay the Symptom, after which we fall to prepare the Blood for a critical Separation; great Discharges by weakening the Patients retard a critical Effort; for after they are remedied, and no one can conjecture how long a Time will pass over, ere this can be effected.

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effected, we must rear their Spirits, and bring the Juices to a determinate Degree of Confistence, before the Crisis will be attempted: It is however certain, that whatever Discharges (whether attempted by Nature or Art) have been made, the Quantity left behind is easier therefore brought to Maturation, if it can at all be done; and fuch Persons undergo less Fatigue with Medicines. There is in Fevers, in the beginning, too strict an Union of the Particles which must be dissolv'd ere a good Crisis can happen; however, I can't be fo fuperstitious as to suppose that Fevers are concocted only in uneven Days; that is, I fee no Reason, why a fixth, an eighth, a tenth, a twelfth, or a fixteenth Day may not be trusted to for a Crisis, as well as a seventh. an eleventh, or a thirteenth; this is as if Nature, like the Gods, were pleas'd with odd Numbers; fo much is certainly ridiculous, and does not quadrate with Experience in our Island: The Promotion of a Crisis is favour'd by the Remedies proper for each Species of Fevers, for you are to incrassate a State of Blood too much disfolv'd, and you are to attenuate too grofs a Blood; a Rheumatick State is to be disfolv'd in a different manner to what a phlegmatick one is: In it thin Liquors, gentle warmth, and nitrous Medicines, are requisite; it bears no Remedies very volatile and moving, which feldom fail of making them delirious, thirfty, and of hurrying on Convultions: We are obliged to make flow Haste in this Fever; the cooler Remedies hinder Concoction, and we lose the proper Opportunity of Putrefaction, or Separation: We must therefore move in a middle Way. In a very putrid and malignant, or peftilential State, we must be cautious of waiting for, or expecting any Concoction at all; for, Quod putridum tolli, non alterari, postulat; generally speaking, we are oblig'd to endeavour at Expulsion: We ought carefully to observe two Things, whether, to wit, any Separation was made in the Urine, before we were call'd, or whether we are to expect none; if the former be the Case, Expulsion is abfolutely necessary, suited to the Nature of the Fever; and if the Juices be so cohesive as to attempt no Separation at all, as the Pulse, Heat and Urine will inform you, then are we to trust to nothing but effectual Cordials and Stimulants.

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THE exact Returns of the Fits at stated Hours have puzzled all Ages to account for them; which however may be folv'd by an easy Supposition; for if we suppose the Blood to be of an unequal Texture, that is, unequally concocted, then it follows, that the whole Mass is variously circumstanced, or in other Words, variously corrupted; so that there are contain'd in it, if the Fever should continually observe its original Type, an infinite Number of Corruptions of different Degrees, which become of Age, as we may fay, or are hatch'd at certain Terms. and act their dismal Scenes: If we consider the Symptoms and the Time, we shall more readily conceive the Reason of what happens. The Patients on a fudden grow chilly and cold, they fhiver and tremble all over them, they grow pale, their Nails turn blue, they are dull and fick, their Pulse is obscure and small, but quick; and thus they continue for a shorter or longer Space of Time, as the Nature of the Cause is more or less prevalent: When this Scene is over, they begin gradually to grow warm, till they burn with Heat; their Pulse from weak grows strong and large, they are thirsty, their Urine from pale turns deeply red, their Heads

Heads ake, and each Symptom, the State and Condition of the deprav'd Humours can produce, commences and affects the Sick with Fierceness; but when Sweats break forth, and the Urine fettles, all the Symptoms gradually lessen, and at last either a persect Calm enfues, or a Truce is obtain'd, till a fresh Attack, after one, two or three Days Distance is made, and the same Round is taken again; the Shiverings, namely, the Heat, the Sweats, and the Declension of the Fever begin, and regularly fucceed each other; and this Train is kept on, till the whole corrupted Matter of the Blood is exhausted; and if the whole Mass be thus circumstanced, nothing can happen but Death, unless Assistance be properly apply'd. The Hopes or Expectation of a Corruption of a small Part of the Mass, has made too many fuffer to wait any longer; for even what Physician can foretell how many Fits his Patient shall have? How much less can Patients or their Friends pretend to this Secret? Let them not therefore vainly wait for the bettering of their Affairs, but apply to proper Persons in due Season. I shall endeavour to account for these Returns in the following easy manner: There appear then

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to be various Parcels of Matter in our Blood, of different Degrees of Concoction; and supposing the Fibres, by their compressive Force, to comminute the Victuals into Chyle and Blood equally in equal Times, the Juices will be, in equal Spaces of Time, of an equal Degree of Cohesion or Tenuity: If then the Mass of Blood, or some Part of it, be cohesive in such a Degree, as to irritate the Nerves into Convulsions and Shiverings this Day at Twelve a-Clock, and if the same Scene begin thirty Hours after, it shews that the first corrupted Parcel was riper than the latter, by one, and one Quarter of Time; and that the latter will only be in that Condition thirty Hours after; as the third Parcel will be in fixty Hours after the first; and the fourth in ninety Hours; and so on for each Fit that can be produced in any affignable Tract of Time: These nice Degrees of Cohesion however are by no means visible or perceptible by any Trials to us: But Cohesion alone is not the Cause of all these Effects; there is another Quality which causes this Cohesion itself, and that also irritates the Nerves; namely, the Salts of the cohering Matter prick the Nerves, and cause all those Tremblings of the Muscles. cles, which by this Agitation hurry forwards the whole Mass, that without them would stand still, as it very often happens, in a very cohering Blood, notwithstanding this useful Struggle: The stagnating Juices are made to meet each other by this compreffive Force of the Fibres, which the Irritation occasions; and by this frequent Occursion, they are justled against each other in fuch manner, as to make them exert their Elasticity; they grow less cohering thereby, till they become thin, and fit to pass the fmaller and capillary Veffels and Glands, and then a Calm ensues. All this Account being eafy and natural, we are to confider why the Remedies given to prevent these Returns, are beneficial; and as the most eminent of these is the peruvian Bark, when it is fresh and well-condition'd; we shall fee why it operates hereafter, namely, by its bitter and earthy Parts, which attenuate the Fluids, and contract the Fibres, and fo prevent all Cohesions for the future; and by a Continuance of it, each Parcel of Blood is brought up to a convenient Degree of Digestion, or to such a Pitch of Fluidity, as is convenient and fuitable for that Individual.

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WHERE Relapses in Quartans are so frequent, it will follow, that the Blood will at last be very much deprav'd; it will either be too gross, too watry, or too saline, and Diseases will follow of various Natures, according to the Humour reigning: So that Cachexies, Dropfies, Jaundices, Hecticks, Convulsions, and such Diseases, will ensue. Some of which to relieve, I shall hereafter observe. I cannot but think these Relapses might be prevented with powerful Attenuants; nor do I quarrel with those who would attempt a gentle Salivation in fuch a State of Blood. Ettmuller is not the only Author that encourages this Discharge in Quartans: I have known it of use in the very Case; for having mixt Mercurius Dulcis with the Bark, in a small Quantity, and having apply'd a Plaister, made up with Cinnabar, to the Stomach and Wrists, without any other Design than to attenuate; the Patient's Constitution being very easy to yield, the Mercury, tho' only to 12 Grains in all, and given at a Grain a Time, and perhaps the Plaster also, salivated, wrought upwards and downwards, and carried off the Ague-Fits; nor have they hitherto return'd. It is almost necessary to derange the Situation of the Particles ticles of the Blood, where Patients are continually relapfing: Nothing acts more powerfully than Mercury does in this Case, for the whole Serum is changed for new, and the Salts, which are the Bond of this preternatural Cohesion, are carry'd out of the Mass, and fresh are supply'd by proper Attenuants; so that the Patients are renew'd, and put out of Danger of falling into the like State, at least till they again deprave their Blood with the fix Non-Naturals. However, Prevention being great Part of a Physician's Care. he must point out to them how to manage themselves for the Time to come: They ought to avoid all Pickles, all Saline Diet, Milk Meats, the Sea Air, an unactive Life; and in short, every thing that will render the Blood cohefive and irritating; and in their Stead he must order them to use attenuating Roots and Herbs in their Diet : namely, Horse-Rhadish, Mint, Cresses, Mustard, Peppers, old Cheefe, and fuch like; because these prevent Coagulations, and do keep the Blood dissolv'd. However this Method is not rashly to be advis'd to all, because if the Viscera be under such Disorders as will not bear its Administration, it must be forborn; for Example, if the Patient

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tient should be subject to a Consumption, or some other such forbidding Disease, we may bring a Difgrace upon our Art by fuch an Attempt; or if there should be any obstinate Obstruction which the Commotion rais'd should prejudice more, than it would profit by the aperient Quality; for it feldom happens that Persons are seiz'd with long or frequently relapfing Quartans, but the last Effects of them are Obstructions of the Liver, Spleen, or Mesentery; and Salivations are not a proper Method to take these off, because the Method of curing Scirrhus's for Example, if they can be cur'd at all, is not to discharge and drain off the thinner Parts of the Blood, but to dissolve the Coagulums or Offa's deposited on these Viscera. The too strong Efforts made by the Blood, impregnated with Mercurial Particles, will open or break; and as in obstinate Obstructions, the latter is to be fear'd, it is more advisable to forbear, than to bring on Discredit: And moreover, as Mercurials are easily converted into Vitriols, we have Reason to fear this should happen in our Vessels, and then the Styptick Quality would be as prejudicial, as the Aperient would be of use. These hard Swellings are best dug down

down by mild and gentler Aperients, for fear of raising Inflammations, or of converting them into Cancers; nor is it advisable, where Weakness affects the Patients, till we have first recruited them with restoring Diet: One thing is very observable in all Fevers whatever, namely, that a Salivation is always critical, without waiting for a Concoction in the Urine; and if we manage rightly, we never find Perfons labouring under a Fever to die, if they falivate plentifully: This is too common an Observation in the Small-Pox to be doubted of, much less to be denied; wherefore, as the Salivary Glands are a fure Receptacle for the morbid Particles to pass off by with Safety, a Salivation is but aping Nature in the Discharge of the Disease: We need not wait for * Concoction, but may attempt an Evacuation; which, if gently carried on, attenuates, disfolves, carries off, and gives Room to supply Spirits, and Serum of a laudable State. So much Good does a natural Salivation do, that I am furpriz'd we don't extend its Use farther in other Fevers; and I am very well af-

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fured, that fince my advising an Attempt of this Kind * in the Small-Pox, when the Salivation was in Danger of being suppress'd, that it has been attempted with Success by such as the Manner was communicated to, nor can I see what should hinder it; for my own Part, I shall still be cautious how I say too much, till so many Experiments have been afforded me, as to be ascertain'd in every Particular, and then the Publick shall not fail to have a further Detail of the Matter.

Some have lost all the Elasticity of their Fibres, so that whether Volatiles be administred, or Blisters be apply'd, 'tis the same as if they were given or apply'd to a Carcass; it is true the Blisters do rise, as they wou'd do if we somented a Carcass, and kept it warm; but still they lose all their natural Essects, namely, they give no Strangury, they raise no Heat, they neither quicken nor strengthen the Pulse, nor encrease the Quantity of their Water, and to be brief, the Patients are even insensible of the Pain: This is a Case we sometimes meet withal, not in the advanc'd only, but even in young Persons,

^{*} Euod. p. 197, 198. Second Edition.

where we might expect a Spring in the Fibres. It is easy to judge of this Constitution after the Application of a few Blifters, and generally speaking, this is the Case in petechial Fevers, where the Blood is greatly deprav'd; in them the unequal Texture is univerfal, and the Blood is every where alike concreted, no Remedy is strong or quick enough to dissolve the Grumes, for the Blood stands still almost every where; nothing effects this more fuddenly than putrid Steams, Examples of which we frequently fee in the Small-Pox, where, upon their retreating, the Blood stands still at once, altho' a few Moments before the Pulse promis'd no fudden Mischief, and the Physician believ'd the Patient in no great Hazard. I have fometimes indeed thought in the Case before us, that these Steams mov'd the Blood too much, fo that the Fibres cou'd not circulate it so fast, and therefore it stood still; and doubtless this is also sometimes the Case in the Small-Pox with a strong Fever, and Bleeding in this Case is a Remedy; but I speak where this Distemper is accompanied with a small Pulse and feeble Spirits, and where by fome small Mistake of the Patient or Attendants, the Pustules w here have

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have retreated a little; Fibres can't remain elastick without a Flexility, and where the Blood is stuffed with too many rigid Salts, in Proportion to its flexile Parts, the Fibres will partake of the Nature of the Blood, for they are nourish'd by it, and are more or less flexile or rigid; as the Blood that passes through them so frequently, is circumstanc'd. In the Case before us, the oily or flexile Parts are turn'd into Grumes. by fome odd and preternatural Mixture, the Fibres are render'd rigid and incapable of Oscillations, the Blood therefore engag'd in them is not propell'd, nor can it; for there is no Circulation without a Contraction and Dilatation of the Arteries, and they being every where rigid, they are always in a State of Contraction, and therefore the Blood stagnates; there is no Room to expect Life in this State or Condition; for Life depends on the Circulation, as a necessary Condition, and when that is at an End, we must cease to live: However, as we know not certainly, but Numbers of Blifters, and large Quantities of volatile Remedies may do good, we are oblig'd to perfift in the Use of them, making a fatal Prognostick: For as the Resistences to Motion

are augmented by the Rigidity of the Veffels, and the Velocity is diminish'd by the Force of the Heart being lessen'd from the Want of Spirits, all we administer or apply must be irritating, cordial, and relaxing: The first two are indicated from the Defect of Spirits and Oscillation; and the latter is required to lessen the Rigidity, which are Contra-Indications; and therefore hard to be remedied, where the Indications are equally fix'd, and the Hazard is equal. If we don't relax, the Vessels may still remain too rigid; an Increase of the Moment of the Blood may break the Vessels ere it relax them; wherefore, as Baglivi has justly obferv'd, that warm and relaxing Fomentations, apply'd to the Hypochondres, serve to divert Fluxions upon any Part, by lessening the Resistence at the Part somented; so it can't be amiss to apply warm Applications to the Feet, where the Vessels are too rigid. These warm Applications are suitable to Hippocrates's * Calida lavato, or his fomenting with warm Water: They relax fo far, as to restore the Elasticity of the Fibres, which, when done, the Stimulants and Alexi-

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^{*} Hippoc. de Morb. L. 2. Sect. 5.

pharmack Medicines will push the Blood forward with greater Ease into the Vessels, which are now put into a Condition to yield to its Influx: In this manner the Secretions are perform'd, the morbifick Particles are thrown off, the Blood is clear'd, and the Disease does gently disappear.

MALIGNITY is discover'd by various Signs; it is the Consequence of an unequal Texture in the Blood or Spirits: In the Vessels, we detect it by Eruptions; and in the Nerves, by Convulsions and Deliriums, without any apparent Reason, as also by the Pulse turning suddenly weak: What is the numerical Cause of it, is not easy to determine; but as the Blood and Spirits do both denote Irritation and Obstructions, we may lawfully pronounce it cohesive and saline; all these Essects being deducible from these Causes, and the Remedies do also consirm us that our Conjectures are just.

HERE I think it necessary to dissuade young Practitioners from the Example of some, whom I have seen act contrary to all regular Practice, to the Light of Reason, to Conviction, and to common Sense; my Readers must pardon so high a Charge, every Article of which is true. It was ne-

ver yet advanc'd, from the earliest Days of the Medical Art, down to this Century; that Catharticks, as fuch, were to be given till Signs of Concoction appear'd; it is true, we are glad of dark Signs rather than none, and willing to embrace them. It were contrary to the Light of Reason to pretend to make a Separation by Phyfick, where none had preceded, but more especially if the Body be of a plethorick Habit, if the Fever be in its Beginning, and be strong, the Pulse great and full, and great Headaches be rais'd, because Physick here may probably add a Commotion to one already too much exalted; in which Case emptying the Blood-Vessels, by taking away Blood, will furely answer the End adequately: If these Symptoms are truly represented, the Person who acts in a contrary Manner, must be convinc'd he acts contrary to the Rules of Art, and that infifting on a Discharge by Bleeding, cou'd not be call'd Disputing, but a tenacious Adherence to the good of the Patient, and hindring the Opponent from acting in Contradiction to common Sense. Such Patients may rather be said to have escap'd, if they recover, than to have been cur'd. And altho' fuch Physick, as Au-

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Authors call Minorative or per Epicrasin, may at all Seasons be allow'd of, as well as a gentle Diarrhea; yet the Affistant, who has any Skill or Humanity, never cares to act busily; that is, without an Indication, and particularly will never thwart a true Indication; for this is leaving the known, the short, the clean and direct Road for another, which we are well inform'd is furrounded with Brambles and Quagmires. It is very certain, and I have frequently experienc'd it in this Fever, that assoon as the Urine subsided, where the Bark had been administred, a gentle Cathartick given in the Morning, and a paregorick Draught at Night, and this Method repeated for two or three times at convenient and proper Distances, the Patients seldom fail'd of recovering; or if the Fever did not intirely vanish, at least it was so diminish'd, that a common Regimen due for other Fevers, namely, an Abstinence from Flesh-Meat, Draughts of Sack-whey, keeping warm, and encouraging gentle Sweats with drinking Thea, effectually carried off the Remainder, and bitter Infusions along with German Spawwater.

water, given in a Morning an Hour or two before Meals, restor'd their Appetites, strengthen'd their Stomachs, gave them Briskness and Life, and made their native Colour return, fo that they were plac'd in a fettled State of Health, they were invigorated in fuch a Manner, that they bore the Air without danger of Relapses, if the Patient were obedient to Directions; for it is not fafe to expose themselves too soon, after a Fever, to the open Air; because the Juices being rarefied, and the Pores being dilated, by the warm Regimen made Use of in Fevers, the cool Air has a sensible Effect on the Fluids, by fuddenly condenfing them, and indeed congealing them; fo that Rheumatisms are frequent Consequences of this ill Management, and also on the Solids, by contracting them fuddenly; fo that the Pores are shut up, and the usual Effluvia are retain'd, and a Shock is given to all the Fibres, and Shiverings and Fevers are renew'd too often.

MERCURIALS are fafe and useful Purgatives in Fevers; they don't only carry off the morbid Particles by Stool, but being Vitriolick, they also præcipitate them thro' the

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Kidneys, and are therefore doubly useful; The Humours, after fuch a Purgative, difcreetly managed, don't affemble fo readily again to raife Commotions; for besides the Quantity thrown quite out of the Blood. the Juices being impregnated with the Vitriol, are render'd heavier, and do begin to lose their attractive Force, and are apt to be carried off by Urine; and as faline Bodies are reputed the original Cause of Fevers, inafmuch as they do irritate the Heart to more frequent Contractions, and as they meet with fome other Principles in the Vessels with which they raise Tumults, these Vitriols are Absorbents of these Salts, and they do therefore enervate them by joining in with them, and do at last throw them down; fo that they act in a double Capacity, as Evacuants and as Alteratives: But Caution is necessary in the Use of them.

Is Catharticks cannot be administer'd, because the Strength of the Patient will not admit of them, there is yet a Method remaining, by which the Humors offending are thrown out of the Body almost in an insensible Manner; or however, so gradually, as neither

neither to weaken them, or be perceptible to the By-standers: I mean, they may be pracipitated out of the Blood by known and experienc'd Methods, yet not much thought on by most of the Faculty: When I speak of Pracipitation, I mean no otherwife than Chymists do, when they throw down Contents of Liquors to the Bottom; for Example, out of sublimate Water, a white Præcipitate is got by pouring any volatile Spirit into the Water; the Reason of which is, that the Fluid containing the Sublimate is attenuated, because more attracted than the Sublimate, and the Sublimate which before was attracted, and therefore fuspended, drops to the Bottom: In like Manner, Resin of Jalap is præcipitated out of Spirit of Wine by Water, or Earths are præcipitated from acid Spirits, by pouring on a great deal of Water; or Gum Arabick is præcipitated out of Water by Spirit of Wine, because Water and Spirit of Wine in the first Case attract each other stronglier, than the Resin and the Spirit; and Water and Salts in the fecond attract each other stronglier than the Salts and Earth; and in the third, the Spirit of Wine attracts the

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the Water more strongly than the watry Gum; and therefore, as the Suspension depended on Attraction, the Præcipitation depends on a Repulsion. In our Juices, the individual Thing, and the Reasons hold true, whatever some unexperienc'd, but bold Afferters prate to the contrary: But as the Brevity I aim at, does not permit me to descend to many Particulars, I shall instance in a few, leaving the main of this Discourse to the LECTURES I have so often read to Pupils, and shall publish in as convenient a Time, and with what Expedition fo great a Work allows. If the cold Air causes the Sulphurs in our Urine to cohere, we find that the Heat of the Fire distipates 'em, and makes 'em fwim imperceptibly in it: The Salts folded up in the Sulphurs in our Urine are præcipitated by Galls in Powder, or indeed, by any styptick Drugs, or by any concentred Acids in particular Constitutions: The Serum it felf will grow muddy by these Experiments: It is known, that Earths or Earthy Bodies do præcipitate Sulphurs; for Salt of Tin, or Crystals of Tin, will præcipitate Wine, when it is upon the Decay: And it further appears to have this Effect

Effect on Decoctions, when Alum makes the Particles of the Plant to emerge, which is call'd a Præcipitation, or rather a Separation. The fame follows in our Urine, from the Administration of Earths internally; and I fee no Reason, why the same Cause should not act, when the same Effect enfues. When we adminster testaceous Powders in Fevers, we observe that a Subsidence in our Urine is the natural, usual and constant Effect, that follows their Use; and it always has been advis'd by Practitioners of Note, to use Alum, Sugar of Lead, Conferve of Roses, Coral, Terra Sigillata, Spirit of Vitriol, Bole Armeniack, Bezoar, Hartshorn calcin'd, and the rest in Fevers. I need mention none beside Riverius and Mayerne, who have strenuously inculcated their Use in Practice: Were these to act no otherwise than by their Weight, and angular Figures, the Confequence would be an Attraction with the Sulphurs, an Encrease of their Weight, and a flower Circulation. and a Præcipitation of the morbid Contents. which gives a regular Indication of Purges after such an artificial Procuration of a Sediment: But it ought to be remark'd, that fuch

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fuch Remedies are only effectual in a too rapid Circulation, and then alcalious Earths are too ambiguously made use of, because they may attenuate as much as they pracipitate. What I would infer from this Advance, which as to its Reason is new, is, that Præcipitation being an Extermination of some Particles, most or great Part of which are morbid, it may not improperly be call'd a Discharge of them, and is principally to be made use of, when Danger would enfue from any the least sensible Evacuation, as it frequently happens in dangerous Fevers. In the Case of the petechial Fever, to be observ'd below, the Urine did not subside till the Vitriolicks were blended with volatile Salts: The Reasons of which may better appear in a larger Discourse: namely, the Lectures. No one, I hope, will suppose I exclude the Fibres in this Work, which by their Concussions and Vibrations help forward the Remedies, and cause proper Occursions; without which nothing could be done in the Affair before us.

As the present Fever is mostly remitting, it admits of the Bark, which is the most known Specifick we have against all Shift-

ings in the Blood: What these depend on has already been discuss'd; so that the Bark feems to be most adequately levell'd at Concoction of the Blood, which feems to be accounted for in the following Manner: The Bark is bitter, and has a good deal of earthy Parts in it; it yields a volatile Spirit, as well as an Acid one; it has a good deal of fix'd Salt in it, and it is moreover gummose. The Bitterness, the volatile Spirit, and the fix'd Salt, do all contribute towards the same Ends; namely, they are the Occasion of its penetrating into the Blood, they render the Blood more Elastick, they stimulate agreeably, they are as rigid as the Fibres require, they are minute; and hence is it, that the Bark drives the Blood equably forward; hence is it, that it acts by entring the minutest Passages and Pores; hence is it, that it acts in a smaller Quantity, as it contains more of these faline Parts; hence will it be deficient if these Salts have been by any Chance evaporated, or have chang'd their Figures by Length of Time; hence is it, that Cohesions will be deftroy'd; hence is it, that whatever Composition there may be in our Juices, it will penetrate and mix with, and unite thefe

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these hererogeneous Particles; hence will it be, that our Secretions will be regularly perform'd; and hence will it happen, that our Fibres, if relax'd, will be made more tense by an Absorption of whatever relaxes them; its earthy Parts help Præcipitation of the Humours, absorb the watry Particles, and obtund Acrimonies, relift Putrefaction, close up Orifices, make the Fibres tenser, and hinder too great Expanfions of Humors; the acid Salts in it relift Putrefaction and Motion, stimulate the Fibres, attract the volatile and fixt Salts, the Oils and Earth, and keep them all united to one another, so that in Substance it will act best; the gummofe Parts sheathe and obtund all Acrimonies, and take off Pains and Stimulations: When therefore such a Compound, as the Bark certainly is, and will in proper Place be made to appear. is administred internally; the whole united stimulates without Pain, it constringes the Fibres, and præcipitates Humors; it attenuates the Fluids, and defroys their Cohelions; it obviates the Caufes of shifting. and produces a regular Circulation, which is attended with a ftrong, calm, large Pulfe. and with a due Separation of fuch Fluids

as the Blood is us'd to part with; it concocts Part of the morbid Mass, and assimilates it to the Blood, and filently throws down the Remainder into the Urine; it produces a determin'd Degree of Fluxility in the whole Mass, and by the Attrition made upon the Fluids, and the Compression made by the Fibres, there is a proper Comminution of the Mass, or a Concoction made; that is, the Blood and Juices are reduc'd into our natural Constitution, our natural Temperament returns, and Health is reftor'd. These are the Reasons why the Bark and other analogous Remedies fucceed in these Shiftings; and whenever the Bark is tardy in its Effects, or fuffers the Blood to return to its ill State, it must be defective in some one or more of its essential Parts; that is, it must want either its Salts, its Earth, its Acids, or its oily Parts, or the Air must offend in somewhat: Now there never was a Seafon, in which the Bark has fail'd so much, as it has this Year; for it is too well known, that the Fever has been cur'd, and Patients have foon, after they have ventur'd into the Air, relaps'd, and have again run the same Circle of ill. Symptoms, if not worse, than before, It

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is therefore incumbent on me to examine into the Reason of this new Phenomenon; I call it new, because the Bark has hither to been found to be quick in its Operation, and has kept Patients steadily in Health, so that they might venture Abroad upon their usual Occasions, as soon as they had recover'd their Strength; the contrary of which we experience daily.

To determine upon this Affair, I must make mention of a Circumstance, which very few are appriz'd of: Several Years ago, I had fome Occasions which obliged me to be near the Warehouses, and observing some Casks intitled, Cascarello, I was eurious to know what Sort of Merchandize that was; which, however, the Person was unwilling to refolve me in; till upon my Affurance I should make no ill use of it, I was inform'd it was the Peruvian Bark, hid under that Name, left the Glutt of it should lower the Price, and the Im. porters should be prejudiced thereby: Now all the World knows, there has been no great Demand for this Drug for many Years. till of late; fo that the great Quantity then imported, added to what has been fince brought over, could not have been con-F 2 fum'd

fum'd till this Epidemical Fever happen'd; and it must now be brought into Use blended, and mix'd with more fresh, which has fince that Time come to Market. The Inferences I would draw from this Discovery, are of very great Consequence, and may in part be guess'd at, without proceeding farther; but I will endeavour to illustrate the Matter in as clear and short a Manner as I can. They who are vers'd in Chymical Operations, know very well, that fix'd Salts themselves, in Process of Time, will fly off into the Air, as certainly as the volatile ones do: As to the Volatiles flying off, I need attempt no Proofs to confirm it; therefore it only remains to prove that fix'd Salts, which will endure the most violent Fire, without any fensible Diminution of their Weight, will yet fly away into Atoms in the Air : This is far from being a chymerical Affertion; for Wormwood, when fresh, will afford four Times more fix'd Salt by Incineration, than if it be kept for a considerable Time; and the Wood of Oak, kept till it grows rotten, will give out no fix'd Salt at all; whereas, if it be fresh, and burnt in the Fire, it yields a great deal. I chuse to give known In-

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Instances, that there may remain no Doubt of the Truth of what I advance: These being certain and known Experiments, it must follow, that these Materials will fail of having the same Effects, when old and stale, to what they will have when fresh; not that they will have Effects of a different Species, for the old Saying is true, that Majus & minus non mutant Species; but their Effects will be less in the same Line: Since therefore we have good Reafon to fear, that the Bark, by being long kept, has loft a good many of its fix'd Salts, and all its volatile ones, we have a plain and demonstrative Reason given, why it has fail'd fo much of late, as every Phylician that has any Practice must have observed: And as this Incident gave me early Suspicions why it fail'd of its usual Effects, I begun to consider with myself, what Methods were to be taken to render its Use more effectual: It readily occurr'd to me, that the Salts were in great measure exhal'd, and thrown off; and that a Supply of them. united to some ponderous Drug, would exalt the Virtue of the Effete Bark; and I did accordingly order an Electuary, made up of Cinnabar Native or of Antimony, Volatile

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latile Salt of Hartshorn, and Conserve of Rolemary Flowers, and some Syrup dafter which the Patient was to drink fix Spoonfuls of Pearl Cordial: This I order'd to be given Morning and Evening, to a Quantity proper for the Age of the Patient; and every four Hours to take a Dole of the Bark, in Powder, Decection, or Intolion, in the Remissions. I was not at all deceived in my Conjectures; for where the Bark given to large Quantities, and with a Continuance fail'd, and these Remedies were prescrib'd, I can produce several In-Stances, properly attested, that I fucceeded, nay even beyond my own Expectations. Thus I reinstated the little Daughter of an eminent Painter, who had taken more Bark than would have cured two Adults, without any Success: Thus I cured the Maid-Servant of a Lady of Distinction, who had taken above nine Ounces of Bark in Substance without the least Effect, till she took this Electuary, which rendered the Bark, the took along with it, steadily effectual: Thus, in thorn I have fail'd but in one who follow d this Method; and I hope I shall receive Thanks for the Mention of fo cafual, but effectual a Method, as I have dif-

discover'd; But altho' this Method has so seldom fail'd me, yet I cannot deny, I have been so cautious as not often to administer more Bark after a great deal had been given ineffectually, unless the Patient's Weakness deterr'd me from pursuing other Methods; because I judg'd it improper to give a great deal of a decay'd Commodity, which in Proportion to its active Parts, contain'd too many earthy and obstructive Principles; and which might therefore lay a Foundation for Jaundices, Suppressions of the Menses, Dropsies, Inflammations, and a fatal Train of Diseases depending on Obstructions, and which a Physician, who regards his Character, would prescribe against after the Patient's Recovery; but would probably be look'd upon as too officious for his Care; and thus the Patients would neglect themselves, and the Physician would bear the Calumny. I fay, I have rather taken another eradicative Road, if I faw any Signs that would encourage me in it; namely, if I perceived that the Urine subsided, and that the Fever was moderate, I have, by giving mild Catharticks, and repeating them at proper Distances, quite extinguish'd and carry'd off the Fever, which by this -Me Chaire . Itil Honry or House (10

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Method was not apt to relapfe, as it was when cured by the Bark. There is, however, another Cause which might impede the Bark's Effect, and which is worthy our Mention, to wit, the Heats of last Summer were so extreme, if we consider our Climate, and fo continued, that the Blood exhal'd more than it had done for many Years before, and the Blood of most People became Rheumatick; and thus, what with the Stiffness of the Size, and what with the Decay of the Bark, its Effects were neither quick nor fleady; it would not per netrate into the Size, to remove the envelop'd Salts; and the Size was of fuch a Degree as to admit of no Drug to penetrate it, but what was ponderous, or at least very active, or both Qualities were to contribute to this End : And as the Bark had loft its active Particles, a Supply of both became necessary, and prov'd usetul.

Is the Bark should necessarily be given, by reason of the Danger the Fits bring the Patients into, we are not obliged to either Hours or Quantity; for if a Physician expects a Fit in fix Hours Time, which he fears will endanger the Patient's Life, if their Stomachs will bear it, they ought every Quarter, Half Hour, or Hour, to

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prevent it. Thus have we known a Dram, given hourly to a Child of eight Years of Age, in order to prevent the succeeding Fit, which would most probably have bereft the Child of Life, and it answer'd the wish'd-for End: As for such who consult their Palates, and are regardless of Life, I have nothing to advise them to.

I have also in these Fevers chose to delay the Administration of the Bark, till proper Discharges had been made, or till I perceived the Fever had spent itself in good measure, by spontaneous and moderate Sweats, or Diarrhæa's; and particularly, I forbore its Use, if I saw any Obstruction had prevail'd, till it was throughly remov'd; for as it plainly appear'd, that the Blood was very viscid, it would have been raising Commotions, and producing dangerous Symptoms, to have given the Bark too early; because, if we give moving Remedies in a cacochymical, and particularly a rheumatick Plenitude, that is, in a Blood that a-. bounds in the Vessels, and is at the same time corrupted or tainted with a large Quantity of Viscids: These Medicines will rarefy the Mass, will make it possess a much larger Space in the Vessels, will endanger their

their Rupture, or the corrupted Mass will be driven irremediably into them, and pro-1 duce Inflammations, and other dangerous Obstructions; whereas giving it late, where the Fever still persisted in its Course, with out hearkning to proper Methods, when the Size begins to melt down, it fuffers the Bark, and other Remedies to enter into it, without raising new Struggles; these Remedies produce a farther gentle Attenuation and meleing of the Size; they occasion a ealm and equable Circulation; the Pores are open'd, the Glands renew their Functions, the Humours are fecreted thro' all the proper Emunctories, and the Fever ceases, We see then how necessary is the Knowledge of the Qualities of the Blood, how impossible it is for those, unskilful in them, to have any the least Notion how to act as a Physician, and how little we are Mafters of the Animal OEconomy, if we do not confider the Nature of Concoction; that Cohelion is to be deftroy'd in a determin'd and flated Manner, that experienc'd Measures must only be trusted to in this Affair, and that these Degrees are only known by stated Signs, and attack'd in such particular Manners: And pray what is this

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but the Knowledge of the Qualities, and Motions of our Fluids? The Secret of Cure relies on these Bases; and they who are ignorant of them exactly, make unsuccessful Practitioners.

I know many, who are not fcrupulous about the Taste of what they take, to prevent an Ague, do drink a Glass of White Wine in a Morning for three Days together, in which Garlick has been infus'd, with Success. This shews the Nature and Cause of these Fevers to depend on a Vifcidity of our Juices; for the Juice of Garlick is very feetid and acrimonious, and confifts of firong and volatile Parts, which fuffer not our Blood to run into Cohefions; and the Epicarpia, we use of Hetlebor, and fuch like, contributing also by their volatile or ponderous Parts to attenuate, do further evince, that Cohesions, are the original Cause of Fever-Fits, by preventing of which, we either prevent or cure the Fits: Some for these Ends have given, as a Succedaneum for the Bark, the Roots of Pentaphyllon, and of Snake-weed, to cure Agues, the former are aftringent, and the latter is very volatile, so that as the Fibres are strengthen'd, and the Juices

Juices: attenuated, the Blood is put into fuch a flated Degree of Confiftence, as that it will not run into Offa's or Cohesions, and will therefore circulate regularly forwards; that is, it will not shift from Shiverings into Heats, nor from Heats into Sweats, nor have Fits; but the Chyle will be converted into Blood, Lympha, Bile, and Spirits, proper for the animal Occonomy, and convenient for producing all the Functions Nature requires. To be brief, all the Remedies of Agues handed down to us hitherto, are either of the volatile or fixt Kind, or of a volatile and aftringent Nature, or they are ponderous; hence Camphire, Cinnabar, Antimonials, Savin, Guaiacum, Nutmegs and Alum, Salt of Wormwood, Salt of Tartar, Salt of Wormwood and Spirit of Vitriol, Arcanum duplicatum, and the like, too tedious to mention, are useful.

I have often known that external Applications have been of Use in these and other remitting Fevers, when the Bark cou'd not be taken, but cannot say, that ever they succeeded in Adults, or in such whose Fibres were strong: Nay, I have seen them effectual in a Quartan, which is found to be as stubborn as any of the inter-

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mittent Kind; for a Son of mine, who, tho' very young, was afflicted with a Quartan, was cur'd with a Plaster made up of Cinnabar, and Turpentine apply'd to his Stomach and Wrifts; he was cur'd in the same Manner a second and a third Time. without premising any Catharticks, or other Evacuations: Nor was this the only Instance I have found them successful in. as I took Notice fome Years ago in the Criticon Febrium; and to fay the Truth, this gave me the first Hint of making Use of Cinnabar internally in a Failure of the Bark: and fince this Medicine does plainly act by its Pondus, there is Reason to suppose that Chalybeates wou'd also have a proper Effect in intermitting and remitting Cases; and in Fact, the Decoction of the Bark chalybeated, or an Infusion of Bark with Steel proves more effectual than the Bark alone. in many stubborn intermitting Cases especially. This Pondus attenuates Viscidities. as Moderns and antient Phylicians also have observ'd. Let us look into Sennertus, p. m. 502. and we shall find him giving in Reafons for Steel's curing hypochondriack Obstructions - De modo autem, fays he, quo ferrum & chalybs in boc affectu prosit, funt asidinom variorum

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variorum authorum varie sententie; dum alij pondere partes obstructas permeare ita ab infarctu liberare-flatuunt .- This Manner therefore of acting is not a late Invention, but renew'd, and justly too: And therefore the Notion of the Caufe of the Accessions proceeding from Viscidities, is confirm'd from the Nature of the Cure : Where then we find the Bark flow in its Effects, or suspect it will, and these two Years past, this has been the Cafe, these Applications are advisable, in order to hasten the Cure. One Difficulty remains concerning these Viscidities, which deserves Mention; namely, How should Viscidities obtain in a Blood too much rarefied? For in Fevers depending on fuch States, the Blood is always too thin, and fuch Fevers are always burning and ardent; but if we take the whole Context of this Discourse into Confideration, we may readily enough conceive, that the' the Blood, when throughly concocted and diffolv'd, may be thin and actimonious enough, which yet whilst the Salts are implicated, and wrapt up in Vifcidities, is respectively gross and thick, and obstructive; and one Difference may be observ'd between these Revers from acri-C'erier att

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monious Blood, and those from a groffer and more phlegmatick State, that the Hotrors are less and shorter in the former, than in the latter; and the Heats are more intense and durable; as are also the Sweats. How far other Applications may be of use, I think it not worth while to mention; for furely, if this be of no Use, I can't see how others less effectual can do much Service: I have indeed feen the Bark externally used, but to what Purpole I can hardly conceive, fince most of its Parts are too fix'd to enter the Blood, perhaps the Hellebor, which was blended along with it, might have a good Effect; for I understand, the Patient recover'd: And as this Year has convine'd us of the Bark's Inefficacy, we shall be obliged to have better Bark imported, or to cure in the rational Manner intirely.

Where Symptoms are produced after the Bark has been given for the Fever, and after it has had its Effect, it plainly appears the Fever is not abolish'd, but has chang'd its Type. I know a Gentlewoman who having relaps'd frequently, and being as often cured, fell into an Ischiadick Pain, and which was partly lumbaginous also: Bleeding gave some Relief, and Physick given and repeated

repeated thrice, took off the Pain; but the Quartan return'd in its former Type. Any Commotion rais'd in the Blood, will now reproduce a Fever cor'd by the Bark, and even endanger a Relapse into one, altho' cured in the rational Method. I believe this one Instance sufficient to convince us. that the Bark is not now fo effectual as it was heretofore; and therefore not fo good as it was formerly: For some few Years ago, if the Bark were given regularly, and to a fufficient Quantity, that is, if one Ounce took off the Fever, we ought to give two Ounces more; then whatever Diforder, suppose a flatulant Colick, from making too free with Fruit, happen'd, which required one, two or more Doses of Purging Phyfick, these Commotions did not then cause the Fever to return; but it is not fo at this Time, where the Bark lets go its hold, not only by a Dose of Physick, but even upon the least Change of Air, Relapses are complain'd of. An Air more productive of Fevers, and Bark less effectual than formerly. make People of tender Constitutions very fubject to Returns; which to prevent, is very difficult, unless Patients will be obedient to our Commands. I have already obferv'd. betheder

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Sort Jaune ferv'd, that which cures, will prevent; and if the Bark is so effectual as to take off these Fevers, we must continue to make use of it Morning and Evening, till we have recover'd our Vigor and natural Strength: If this Time cannot be determin'd, I think it advisable for such Patients, who have once experienced a Relapse, not to trust it a third Time; but after their Fever is taken off, let them for three or sour Months proceed to take, Morning and Evening, a Draught of an Insusion of the Bark and Steel in Wine.

TAUNDICES in a Fever are always look'd upon as a fatal Symptom, denoting an Inflammation of the Liver; and Jaundices are now very common, after the Cure of these Fevers; and it is easy to account how they happen, because any Styptick Remedies will obstruct the Passages of the Liver, and introduce a Jaundice; but moreover, if the offending Juices are lodg'd on any Part, by arresting the Circulation, or by a translative Crisis, which may happen in Fevers half cured by the Bark, because Part of the Matter being lock'd up the Spirits dispose of the Remainder by a Sort of Translation; upon either Account, Jaundices may enfue: And moreover, it is

not to be wonder'd at, that fuch cohering Blood, as most People now have within their Vessels, should be obstructive. I hold it not fafe, to trust to Aperients in this Case: Bleeding, Emeticks, and Catharticks, ought to precede them, because such a Quantity, as the Liver holds of deprav'd Juices, must be discharged from the Blood-Vessels before we pretend to alter: I don't however pretend to suppose, that these Discharges empty the Liver itself immediately, but they make a Discharge from the Blood-Vessels, and prevent a further Influx, and in great measure forward the Circulation by the Shock they make. I must desire you observe one thing, in regard to Aperients of the Liver; namely, Steel, or any Chalybeate whatever, must be cautiously administer'd in Obstructions of the Liver, which is much in Danger of turning Scirrhous. I know a certain Gentleman in a late Treatise approves of Chalybeates against a Scirrbus of the Liver; which is contrary to good Authority, contrary to Reason, contrary to his own Sentiments by a necesfary Inference, and contrary to Experience: First, it is contrary to good Authority, for Waldschmidt advises against them in a Scirrhus

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qui Ch rhus of the Liver *; and fays they harden it more: It is contrary to Reason, because it is a Practice well known to give Chalybeates in a lax Habit, in order to evaporate the Water, and to restore thereby the Elasticity of the Fibres; but as foon as we have done this, if we administer them any further, we shall render them rigid; for Rigidity is when an elastick Fibre becomes too inflexible by its Hardness, as Joel observes, where reckoning up the Detriment we receive by too large a Quantity of Chalybeates, he tells us, they give dry Gripes, a Driness of the Tongue, and of the whole Body, and continual Head-achs; which are cured by sharp Glysters, by frequently drinking Goat's Milk, and by frequently eating fresh Butter and fat Broth. Thirdly, it is contrary the abovefaid Author, elsewhere we find, to amend the lax Habit, he gives Chabeates to help it : And, laftly, it is ditectly opposite to Experience; for I have known two or three Instances, where com-

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^{*} Interponi debent Chalybeata, nisi jam Scirrhus Visceris adsit, in tali enim dutitie Chalybeata plus nocent, quia nimis exsiccant, hinc in macilentis & tempore æstivo Chalybeata non semper tutò exhibentur. Waldsthmids de Obstructione Hepatis, Cas. 36. p. 76.

We ought to be particularly inquisitive into the Constitution of the Patient we are to attend; and as we know what Patients, we are always us'd to, can bear, fo it remains, that every new Patient we are call'd to, shou'd give us a Detail of what he has an Aversion to, that a good Remedy may not be discredited: These two last Years being so remarkable for remitting and intermitting Fevers, and Relapses, have given us a greater Infight into the Failure of the Bark, than we have ever yet had; for befides its Inefficacy, we plainly fee, that scarce seven or eight in ten can bear it; indeed, I can't say whether this may not depend on the Bark's being either decay'd, or not genuine: However, it is not our Business to insift upon the Cure of the Fever by a Remedy, which neither abates the Fever, nor agrees with their Constitution.

I was call'd to a Gentleman who had been cur'd by the Bark, and who upon eating fome cooling Herbs, and drinking too watry and cool Liquors whilst he was hot, fell into a violent Colick: It was evident by the Pulse and Heat, as well as his Thirst and Sweating, that a Fever was the Occasion of all this Pain; but I had also Reason to fear an Inflammation upon the Intestines, because the Pain was fix'd, there was felt a Pain upon pressing the Abdomen, and nothing administred wou'd pass: Upon the whole, I cou'd not but fee what was the Cause of all this Disorder, namely, the Fever had for some time lurk'd within, and upon any other Cause whatever it would have broke into some other Shape; but the Diet being too cool for the Bowels, it caus'd the Fever to point there. At first View indeed, I hop'd it was a common Colick; but upon strict Inquiry of the Patient, and from them alone we receive the best and most genuine Accounts, both as to the Causes and the Order of Invasion, I found the Bowels begun to be inflam'd, and the Fever was about to unload its whole Cargo upon them, if timely Affistance were not given; whereupon I ordered Blood to be taken away, to abate the Influx of it into the Bowels, which wou'd have brought on at last a Dysentery, as has been often experienc'd upon the like Case; G 3 and and for the Costiveness I order'd Draughts of Syr. e Rof. Solutiv. and Ol. Amygd. d. to be taken every third or fourth Hour, till they answer'd, or if they were return'd. to repeat them immediately; whereas very strong Physick and Glysters did not answer the End before, these Draughts rais'd a Diarrhea, for which I was afterwards oblig'd to order a Mixture of Aq. Latt. Alex. Cinnam. fort. and Confect. Fracastorij, and thus we promoted Stools sufficiently, and yet kept them under. I have also observ'd, that in obstinate Astrictions, where the Bowels were dry, and Inflammatory Colicks invaded the Patients, that strong Catharticks were far from promoting the Dejection, and that oily Medicines feldom or never fail'd. Having gain'd our Point, the Sweats came on plentifully, and as now the Urine had a laudable Sediment in it, I encourag'd them by Volatiles join'd with the testaceous Medicines; till finding some Danger might enfue by the Patient's Uneafiness under them, who was willing to rise in the midst of them, partly from an Apprehension that they wou'd weaken him. and partly because the Heat of the Weather made them almost intolerable, I resolv'd

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to attempt another Method, which might not carry fo much Hazard along with it, and which I the rather undertook, because I found few Sweats at last isfu'd forth, without the Assistance of Diaphoreticks; so that it was really in my Choice which Discharge I wou'd make; I therefore chose the least troublesome, making some small Preface for the Method I was about to pursue; I told him that now his Urine fettled very well, and that was a Sign the Fever was ready to go off, or, however, might be fafely carried off by any moderate Discharge whatever; that I found the Sweats were troublesome and weakening, and that tho' he apprehended the Excess of purging a few Days before, yet he saw himself agreeably disappointed, and that those Discharges were in our Power to curb, when timely Affistance was afforded; which when he agreed to, I told him I wou'd now finish his Cure by a gentle Cathartick or two, with the fame Security and Success; that whereas the Purging before was both wished for and fear'd; but now it was wish'd for; and accordingly I order'd him Physick, which wrought gently, and abated the Fever very much, which was quite taken off by another G 4

ther Dose, giving each Night after the Physick, a gentle paregorick Draught to allay any Commotion that might be rais'd: After which a bitter Infusion with Spawwater recover'd his Appetite, and the Air restor'd him perfectly to his Health: I forgot to mention that his Colick Pains return'd fometimes with Violence, and oblig'd me to prescribe a Draught with Philonium Romanum in it, and to repeat it upon any great Return of the Pain, which however he did not make Use of above twice: I believe it might have been possible to have taken off this Fever by the Bark, but having relapfed into the same Fever, which the Bark took off before, I was unwilling to give it against his Inclination.

IT fometimes happens, you see, that Chicaneurs have a fair Opportunity of shewing their Spleen, and it were to be wish'd
that they never did make such a perverse
Use of their Skill; where two Methods may
be brought into Practice with equal Advantage, such an Assistant will slily give you
the Honour of the first Choice, that he
may have the Opportunity of taking the
latter; and as his will equally succeed with

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yours, he takes a decent Care to publish the Difference of Opinions after his own has fucceeded, that the World may be perfuaded his Sentiments were embrac'd, and that the Cure was owing to his Skill. Every Man has a Title to defend his Honour against the Snares of such Wretches by prudent Measures; wherefore when you fee fuch an Ambiguity of Methods, prevent fuch Reptiles Designs, by giving a short Detail of your Sentiments; let them see you are appriz'd of both Methods, and that it is very indifferent which Road they take. fince by either we shall attain the wish'dfor End with equal Safety, and in the fame Space of Time: It is a pity but fuch Creatures were discarded from the Rank of so honourable a Profession.

BLISTERS are always used, and with good Success, in slow Fevers; but sew have remark'd how, or in what Manner we ought to apply them. Most unwary People seeing Blisters agreed to, think they may apply them indiscriminately; concluding, that if one does good, more will complete the Cure; and thus the Patients may often be said to escape, rather than to be cured: Much in the same Manner is it with those whose Blood

Blood wants to be attenuated; and because they know the general Indication is Attenuation, they give too large Doses, or too frequently of atttenuating Remedies, till they render the Case desperate. I shall enforce the Belief of what I advance, by giving a few Examples. The Effects of Remedies must be known; we must be skill'd in the Materia Medica, in order to do good. I find by Appearances, for Example, that a Patient labours under a Disease where the Blood is cohesive and phlegmatick; and therefore, I prescribe proper Attenuants to dissolve it: When I have taken off the Cohesion, and have dissolv'd the Blood, which will best appear by the Symptoms being entirely vanquish'd; if an Apothecary should encourage, or the Patient push to go on in the same Method, by which they had found Benefit, it is not only poffible, but certain, that this Excess is never done with Impunity; for the Nature of Attenuants is first to dissolve, and then to incrassate; therefore, it is not always the primary Effects alone, but the Quantity also must be consulted. If in rheumatick, but flow Fevers, or in gross and volatile Blood in Fevers, we give Attenuants, the Patients

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Patients turn thirsty, and become delirious, and the Urine loses its Sediment; by being too hasty in this Case, we ruin the Patient by thickning his Juices more, and making them stick every where: Gentle Warmth, Diluents, and testaceous Remedies, blended with Sal Prunella, prove effectual; whereas the volatile Attenuants, Serpentaria Virg. Castor, and such like, are detrimental, as the next Visit will amply inform the Physician. Steel is one of the most effectual Attenuants for groß Blood; and yet, as I have elsewhere made you see in these Sheets, we must proportion its Quantity, or Headachs, Thirst, and Driness of the Tongue will enfue. Wine is a Cordial that by Excess will overwhelm the Spirits. I must declare, that I have feen Patients hurried out of their Lives by an Excess of a Method that was just in itself: Judgment is a necessary Requisite for Practitioners; or how should it happen, that a Physician would cure with the very individual Remedies with which an unskilful Person deftroys: Brandy Spirits will raise a drooping Man; but if continued, they will destroy the Texture of the Blood, and turn it into a Solid, as appears by those Concretions in the the Aorta of Spirit - Drinkers, which are mistaken for Polypus's. We have liv'd to see the ill Effects of the low and despiriting Diet, advised by a late and learned Physician: Some, to whom it was truly useful at first, having persisted in it, till they have been surpriz'd with Cachexies, Dropsies, and a Proneness to Catarrhs and Ashma's;

Sunt certi denique fines,

Quos ultra citraque nequit consistere rectum.

I hope these Examples are easy, and granted by Mankind: From hence therefore may Rules be drawn for the Application of Blifters in flow Fevers: Symptoms and Diseases are not to be cured; their Causes, whatever they are, are only attack'd; for a Symptom is only a Part of a Difease, and a Disease is the immediate Result of the Cause; a Symptom denotes the Cause in part, and Signs denote the Disease fully; we only make use of these Symptoms and Signs for coming at the Cause, which is not cur'd but by regarding the Quantity, Quality and Motion of the Fluids and Solids; and whether this Cause be such as we imagine it to be, or it be purely imaginary and fictitious, fo long as fuch certain Symptoms and Signs demonstrate such Faults in Quantity, &c. and indicate such Remedies, it is not pertinent to dispute

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dispute about the Existence or Non-Existence of fuch a Cause: Suppose an Acid to be the Cause, and Remedies that destroy Acids to cure the Patient; it is not worth our while to cavil, whether an Acid was or was not the Cause, so long as those Symptoms and Signs, which we supposed to proceed from an Acidity of the Juices, deposited on a certain Part, are reliev'd by Remedies. which, as Experience informs us, make fuch Signs and Symptoms to disappear; and the fame Experience instructs us also as to the Quantity to be given, whether we hit upon the real Cause or not, so as to be for the most Part infallible: Now Experience teaches us, that Blisters are to be apply'd in flow Fevers, of any Kind, as the Symptoms require; if, for Example, the Pulse be weak, the Heat moderate, the Urine pale, the Patients be delirious, and have petechiæ upon them, we are to apply Blifters, which are found to strengthen the Pulse, to heat us, to give a higher Colour to the Urine. to turn the Purples to a Red, and to abate this Sort of Delirium: If two Blifters do only abate these Signs and Symptoms, we are then to proceed to apply more, after having observ'd the Effects of the first : If these succeed, yet still somewhat remains to be

be taken off; at a proper Distance apply more; but if we postpone this Rule, we may at once raise the Pulse to so high a Pitch, advance the Heat to such a Degree, and bring on such Commotions, as may overwhelm the Patient.

IT feems very furprizing, that any *Gentleman, who wrote on Fevers of the worst Kind, not much above Forty Years ago, should never make the least Mention of Blisters in them, when there are many Histories in his Book which seem to require their Use; and for the want of which his Patients must have suffer'd: In his Seventh History, we hear of one who died Comatous, whose Pulse was quick, frequent and fmall, whose Tongue was dry, and who had fmall and black Spots upon him; and vet no other Efforts were used, besides a little Cinnamon, and some other simple Waters; neither did he use testaceous nor volatile Medicines: And yet their Effects were known long before, every where.

It is somewhat remarkable, that Women are seldom so subject to Deliriums as the Men; and that they are more readily assisted when they are so affected: If we consider that there is a Difference in the

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Make of the Vessels, we shall conceive how all this happens; for the descending Trunk of the Aorta, at the Iliack Division especially, is larger than that of a Man's: And in Men the ascending Trunk is larger than that of a Woman's of equal Size; so that the Blood runs with Ease downwards in Women, and with less Resistance upwards in Men: Hence are Men more subject to have too much lodg'd on the Brain, and Women more liable to Fluxes of Blood; Revulsions therefore profit Women more, and remove fuch Deliriums, whenever they do afflict them, much fooner than in Men: and moreover, they being naturally of a more lax Habit of Body than Men, Blifters do them less Harm, and more Good.

Where Women in Child-Bed are seiz'd with a Fever, the Lochia are suppress'd, and a Diarrhoea succeeds, we are cautious how we proceed; for so long as it goes forward gently, it serves as a Succedaneum for the Lochia, and in that Case we ought to be Spectators; for as when no Discharge succeeds a Suppression, an Instammation most commonly follows; so when a Diarrhoea ensues, those Parts, which would have produced this Disorder, are carry'd off into another Channel, and the Womb is not so much

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much in Danger of being stuff'd up with Humours; wherefore, such a Discharge is a Sort of a translative Crisis, and it is next to being natural: But if this Diarrhaa should prove immoderate, and a Fever should reign at the same time, it is a dismal Case, and very rarely succeeds; for a Tranflation itself is but doubtful, and much more ought we to apprehend an Exhaustion also: A moderate Discharge throws off those Acrimonies, which should have been carried thro' the Vterus; but those sharp Humours irritating the Glands of the Intestines, violently turn the whole Bent of the Humours that Way, and to fuch a Degree, as scarce lies in the Power of the Physician to relieve, as I have often experienced: The Uterus therefore is not so sensible of these Acrimonies, as the Intestines; and therefore does it fuffer less by them than these: This we perceive by daily Practice; for tho' the Vterus oscillates upon such Humours irritating it, and therefore throws off what is offensive to it, as appears in the Fluor Albus, its parting with Mola's, and in Births; all which are Consequences of a Body stimulating the Coats of the Vterus, and causing it to contract strongly, and to throw

throw it out; yet we all know how long it will bear Ulcers, and other great Difeases, ere it bring the Patients to their Graves; whereas the Intestines cannot be greatly prejudiced, but the Patient is fatally affected; nor can they bear any great Discharges, especially in Fevers; but a few Days will determine their Fate: In this Supposition, we are not to aim at suppressing the Diarrhæa intirely; for then it recoils upon the Oterus, and inflames it; and if we don't administer Aperients and Hystericks to open the Obstructions of the Womb, as well as apply Emollients externally to the Abdos men, if any Part of the Humour runs into it, in order to make a Passage thro' its Glands, it will inflame: But these Aperients have an Effect of promoting the Diarrhœa's as they irritate; and the Opiates and Astringents purse up the Glands of the Vterus, and hinder the Efforts made to open a Passage that Way: Mean while, both are necessary; for the Patients will die as well of an Inflammation, as a Diarrhœa, and as quickly too; wherefore, as the Danger is equal on both Sides, we must not postpone either ; for Caftor. Pulv. ad Guttet. Sal. Vol. C. C. Sp. & Tinet. Caftor. & Croc. Myrrb, Assa færida, Gum. Ammon. Galban. and such like, must be blended with Opiates and Stypticks; and a Regard must be had to the Fever by Alexipharmacks, which don't encrease their Thirst, and by Blisters, if Occasion require; and the Prescriber must be nimble in his Procedure, or he loses his Patient, who is in the utmost Danger, and ought openly to be declared so; and who is very rarely fav'd, take what Care we pleafe, or have what Skill you can to relieve: These Lochia then are of a very virulent Nature; they are the Menstrua, which have in good measure stagnated in the Vterus for some Months, and which ferv'd to dilate its Coats to a large Size; and we all know, that Blood stagnating any where, raises wonderful Changes: I say they are Fluids, that have in good measure stagnated, because there is no Question, but the main Channel of the Vessels of the Vterus are passable, or all Women with Child would have Inflammations of the Womb; but the Blood's passing thro' the Middle, does not prove that some Parts of it are not congeal'd, or don't stick to the Sides of the Vessels, till their full Time; when the Placenta being taken off it runs out at innumerable Orifices into the

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the Cavity of the Womb, and is discharged thro' the Vagina; and wherever Blood or Humours grow gross, and stick any where, they turn acrimonious, and sometimes corrosive, as appears, when by their Discharge we have seen Erysipelas's, and commonly Excoriations, rais'd round the Parts: For Blood that is gross and volatile, coheres, obstructs, inflames, and ulcerates the Parts internally and externally also.

THERE is an Anxietude which depends on Humours lodging on the Coats of the Stomach, or rather in them; it causes them to toss from Side to Side, nor can they be easy in any Posture; the Stomach feels to them full and hard, and fometimes they have a small Heart-burning: Altho' this Symptom generally attacks the Patients at the first Onset of the Fever, yet if it has not been regarded at the Beginning, it continues, and moreover brings on Hiccups, Swoonings, Headachs, and Vertigo's; all which Symptoms are readily reliev'd by an Emetick and Glysters; for as the Cause refides in the Stomach, this either fets the Humour lodg'd into the Circulation, or forces it into the Glands, and discharges it: Moreover, an Emetick prevents the Confequen-

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ces, namely, a fatal Diarrhea; for as the Humour is plentiful and irritating, it forces its Passage into the Intestines, and the Fluxion being violent, is very difficult to be remedied; wherefore in fuch Diarrhæa's themselves, if the Strength of the Patients will allow of it, an Emetick is at that Time also beneficial; it revulses and evacuates, and prepares the Way for testaceous, styptick, and opiate Medicines; we must not forget to throw in Cordials and Alexipharmacks, to raise the Spirits, and promote the Crisis, which is always much retarded on fuch Occasions; for as a Crisis depends on a certain Degree of Attenuation of the Juices, as well as on a sufficient Quantity of Spirits, to accomplish this Work; there being too great an Avocation of the Spirits, or rather a Confumption of them, the other Work of Attenuation must fail of Course; fince it is by the Force of the Spirits that the Blood is hurried forward in the Vessels. and Concoction depends upon a certain Degree of Motion and Attrition of the Fluids.

As for Sweats, fo foon as they become Critical, they must be promoted, and even whilst they are moderate in the beginning, we ought to let them flow; because in the

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latter Case, they serve to unload the Vessels, and are in lieu of Discharges we would otherwise make; and in the first they decide the Struggle, and terminate the Fever: In either Case we must be cautious, and neither load the Patients with more Cloaths, nor give them too heating Cordials: There is a middle Way, which we must attain to, and follow. For my own Part, I know nothing fo effectually to promote Sweat, and keep it on Foot, as warm Liquors taken in a plentiful Manner; fo that small Sack-whey, thin Chicken Broth, small Tea, thin Gruel, are justly reputed fit for this purpose: The Blood being diluted, does most readily part with its fierce Salts by Urine and the Pores; and they who labour under Fevers, and cannot drink as plentifully as the Nature of the Fever requires, escape more hardly: Two Quarts are generally allow'd in the flow Fevers, of Liquors moderately generous; and in the warmer Kinds, a Gallon of small scarce suffices in twenty-four Hours; for in any Fever whatever, Dilution is a standing Indication; because as the perspirable Matter flies off plentifully in every Fever, it ought to be supplied, or the Blood will turn folid, and stagnate. This we frequently H 3

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quently meet with in rheumatick Fevers, where, without Dilution, and with heating Remedies, the Tongue grows dry, Thirst ensues, the Patients grow hot and delirious, and Blisters do but augment the Driness of the Blood; and in lieu of taking away the Delirium, make the Patients comatous, by forcing the Blood deeper into the Capillaries of the Brain.

THERE never was a Season, when Apoplexies, Palsies, and other Obstructions of the Nerves did prevail fo much as they do at present, and have done for some Time past; I have indeed heard, that these Distempers were periodical, and attended Fevers; this I can't positively affirm of my own Practice; however, it is possible a Fever Fit may throw these gross and coherent Humours into the Brain and its Appendages: And I remember to have been call'd to one in an Apoplexy, whose Pulse was feverish and high, but had no Opportunity to find out how it invaded the Patient, and being late call'd, it was impoffible to pronounce, whether the Obstruction or Fever were original; or whether the Fever were not fecondary: This Symptom denotes, or however, confirms us in the Sentiments

timents we have hitherto afferted, that the Blood is gross, and apt to stick in the smaller Vessels; Stroaks of Apoplexies depending on this Viscidity impacted for their ordinary and usual Cause: All the Remedies, made use of to cure it, witness for it; the Revulsions, of Bleeding, in Proportion to the compound Cause, namely of the Impetus, and of the Quantity of Blood in the Vessels, or the Plenitude, of Catharticks, of Blisters, to rouse, as well as to revulse, of Cupping, of Issues, of Glysters, and fuch like: These Revulsions, I say, regard the Prevention of an Influx of more Matter into a Part, which is already too much loaden, and ready to burst with an Inundation of Blood; and these, if timely made use of, I have often found effectual, fo as to leave only a Stupidity, a Staggering in walking, and a small Degree of Delirium behind, which by repeating these Discharges at proper Distances, and by giving Volatiles alter'd and fuited to the Patient's Gout, along with Sal Martis, or fome such gentle Restringents, yielded, and my Patients have been thereby plac'd in Safety: Before Artificers can empty a Channel that makes an Inundation, they must divert H 4

divert the Source, then fall to Work to difcharge the Waters lodg'd; and lastly, they must frengthen the Banks. What is Revulfion but this Diversion? What is this Discharge but the Volatiles, which push the Blood forward in the Vessels, and restore the Circulation of the Mass. And lastly, this strengthning of the Banks of the Channel, refembles our Stypticks, which corroborate the Vessels in such a Manner, as to take off their Laxity, by which they give Way beyond their natural Tone, fo as to lose their Elasticity, or recoiling Power, the natural Consequence of which is a Stagnation; for assoon as this Property of a Vessel is lost, all the Juices that arrive, are receiv'd, but never reconvey'd: And every one, who is but moderately skill'd in Anatomy, must know, that if more is brought to a Part than can be dispers'd into the succeeding Vessels, that Part must of Course swell, and perhaps the Vessels will break, which is really the Case in incurable Apoplexies, and which are properly the strong Apoplexies the Divine Coan speaks of. The Compass I aim at, does not permit me to descend to further Particulars, or I could give the Reader some remarkable Cases on this Head.

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A great many have been subject, particularly last Autumn, and this Summer, to Diarrhæa's; which have taken their Rife from Patients indulging themselves in the too liberal use of Fruit: We are to consider whether these can be born, whether they be Symptomatical or Critical; for I have feen them Critical, but exceeding their natural Bounds; I have also feen them Symptomatical, but not sufficient; and I have feen them Critical, and infufficient: I have observ'd them critical and sufficient; and I have observ'd them symptomatical and exceffive; and laftly, I have found them fymptomatical, and yet beneficial. As all these different States require different Managements. I shall be as particular, but as brief, as I poffibly can. If Diarrhæa's be symptomatical, they are known, because no Concoction or Sediment preceded in the Urine; and if no Discharges have been made before you were call'd, if they be very moderate, and the fame may be faid if they have a good many loofe Stools, and their Strength does not decay thereby; they ought in the first Case to be encourag'd by a Dose of Rheubarb or two, because there are few Fevers that don't admit of some Discharge in the Beginning;

ning: their Weakness at that Time depending mostly on an excessive Quantity of deprav'd Juices, not on the Scarcity of Spirits. I know not how far this Advice may be relish'd by some; but I assure them, it stands good in Practice; and there is good Reafon, that a redundant Cacochymy should be evacuated; but if it be fymptomatical, and may well enough ferve for a Discharge, that is, if it be moderate, and does not weaken the Patient, we have no Reason to find any Fault with the Quantity, fince it supplies the Part of a Dose or two of Physick, which we should otherwise have attempted; only we must take Care to support the Spirits with Cordial Bolus's, made up with Pulv. e Chel. C. C. of Lap. de Goa, Contrayerv. Corn. Cerv. Calcinat. Alcherm. &c. and with Juleps of Aq. Latt. Rut. Ceraf. Meliff. Menth. Epidem. Cinnam. Mirab. &c. till a sufficient Discharge be made; and then it will be necessary to curb it with a Mixture of Conf. Fracastor. in simple and compound Waters, which, when finish'd, you are to have regard to the Fever only, as is required by the Circumstances: Or if you find them fymptomatical intirely, fo that the Patients are injur'd by every Stool

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in their Strength, or so that they faint after each Stool: In this Case, we must support the Animal Spirits, and suppress the Diarrhæa with all our Art: To the Cordials already mention'd, we may add volatile Spirits; and to the Mixture of Dialcordium we must add a Bolus made up of Terra 7aponica, Croc. Martis Astringens, Corallium Rubrum, Conferv. Rofar. Rub. Sharpen'd with Ol. Vitrioli; and moreover, a Revulsion may be made, which I have often found fuccessful in the like Case; namely, the Application of a Bliftring Plaster or two to the Calves of the Legs, give a Turn to the Humours, and invigorate the Patients: The Pain and Discharge have a very good Effect. The greatest Instance I had of this Kind, was in a Gentlewoman recovering from the confluent Small-Pox, whose Diarrhœa could not be suppress'd by all the strongest Stypticks and Opiates, till I apply'd Blifters to the Legs, which, by their running plentifully, diverted the Stream, and then the Stypticks and Opiates fucceeded according to our Wishes. If a Diarrhaa be critical or useful, and be too sparing in its Quantity, as will appear by a permanent Sedi-

Sediment in the Urine, and yet no Advantage accrues from it, it is lawful, and even expedient, to promote this Diarrhœa, by giving a Dose, or even two or three Doses, at proper Distances, of Rheubarb; with this Caution, that wherever Patients are taken with a Diarrhœa, and you are oblig'd to promote it, half a Dose in that Case will be fufficient; because as it is already on float, a gentle Irritation serves to perpetuate the Motion, and this is a general Obfervation in all Discharges of any Kind ari. fing from Irritation. If the Flux is critical, and will be fufficient for the Purpose, and will serve to carry off the morbid Matter without endangering the Patient's Life, we are to look on, and fuffer it to go forward: But if what at first was Critical, shou'd turn at last Symptomatical; for Excess overthrows Nature; then we are to proceed in the Use of Stypticks, Opiates and Cordials, till we have conquer'd it. It is not easy to guess at the Quantity some very thin Persons will bear, and in such a Case, I would advise the Attendant not to be too hasty in suppressing such a Diarrhoea, where he finds that the administring of

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Restringents raises Tumults in the Bowels, and puffs 'em up exceffively, or where he finds the lessening it confuses their Heads; for fuch Symptoms denote a Tendency downward to be an Effort of Nature; in this Case we are to judge from the Effects, and we are only to give fo much of the Reftringents as will keep the Flux within Compais, and fuffer it to run as much as the Patient's Strength can bear : Here I must confess a Physician has a difficult Task upon his Hands; where if he does not fuffer this Inconvenience to go forwards, he hurries on a Train of as bad, if not worse Symptoms; and if he does, the Patient is brought to the Brink of the Grave: and Judgment only can inform us how to compais the bleffed Mean: Judgment I fay, which is guided by the Relief or Detriment receiv'd, and this requires an unwearied Diligence in the Discharge of our Duty, in which Affair trust no one's Relation.

THIS Fever is as subject to leave Remains, as it is to Relapses; and I have frequently observ'd Hecticks, Pains, Watchfulness, Hysterical and Hypochondrical Symptoms,

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toms, Dejections of Spirits, nocturnal Sweats. Eruptions, &c. and many fuch like Diforders behind it; for it being flow in its own Nature, the critical Efforts are generally translative, fometimes excretory: The Spirits in fuch a Case are either exhausted, or were few at the Invasion of the Fever, and never were well supported during the Course of it: and therefore the Blood is charged with the morbid Matter, which the Spirits don't throw out with any Force, but it is gradually deposited in some one Part, and by stopping there, produces either slow Inflammations and Abscesses, or Pains or Eruptions, or fome fuch Diforders. We are to observe, whether the Symptoms be the Effect of Inflammations, or of Irritations, or of a mix'd Kind; that is, we are to confider whether the Blood be thick by some congealing Substance, or by Evaporation of the humid Parts of it; or whether it be render'd sharp by a Retention of some of its unnatural Salts; or whether both these Faults don't concur: In the first Case, either Tumours of the cold Kind appear, or Inflammations; in the fecond Supposition, Colliquations, namely, Sweats, Fluxes, and fuch like.

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ike, fucceed the Fever, or Convulsions, or, in short, some Effects of Stimulation. In the first Case, we are to consider the Species of Groffness of the Blood; if it be what the Ancients term'd a cold and gross Humour that obstructs the Vessels, that is, if it be a phlegmatick State of Blood that reigns, then a white and pitting Swelling attacks the Legs, and creates an anafarcous Tumor of them; and these Relicks must be attack'd with Mercurials in Catharticks, given at fuch Diffance, and to fuch a Quantity, as will take off the Swelling; after which, we must prescribe bitter and chaly beated Wines to be drank upon Bolus's of Cinnabar, Æthiops Mineral, and Conferve of Rofemary Flowers, for a Month, or more; which will have the Force of attenuating and disfolving the Cohesions, till they bring 'em to a natural Confistence: But if the Blood has become gross by the Sweats, or large Quantities of Water made, and is thereby thicken'd, it sticks in the lymphatick Arteries, and creates Pains and Inflammations; for fuch Blood is not barely viscid; it is also faline, and therefore does not barely stick in the Veffels, but also huffs and expands itself, and raifes

raifes Inflammations, which are fucceeded by a symptomatical Fever; and I have often observ'd this inflammatory Disposition after Fevers: The Physician need be at little Pains to discover it, because if he, upon Inquiry, finds that Pains in the Bowels, for Example, have preceded a feverish and hectical Heat, let the distance between their Appearance be fhort or long, this Pain is the Cause of this Heat, and will be follow'd by a Fever, if it is not already attended with one: In which Case, we must draw off such a Quantity of Blood as will abate the original Complaint; which I have often feen done with a very fmall Quantity, if the Complaint chanc'd to be recent; but if the Patients have neglected themselves, or if they have been ill treated, once Bleeding seldom completes the Affair. and fometimes the Viscid is so deeply impacted, that Bleeding little avails: I fay not this to encourage the Omission of this Discharge, but because I have been often call'd. when they have deferr'd it, till it became useless; as it may easily happen, where the Blood has been lodg'd for a considerable time, for then it begins to impostemate; and indeed there is no recalling it then: When we have abated the Pain, our next Inten-

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ntion must be aim'd at opening the truction in so gentle a Manner, as that he Blood may not be too violently mov'd, fo that Aperients must be blended with watry Liquors, and must be given warm. Nothing is a better and more effectual Remedy for opening these inflammatory Obstructions, than Nitre given in Water; wherefore, Fuller's Decoctum Coccineum, given gently warm, is a very good Medicine: Salts are best dissolv'd in warm Water; so that even Cream of Tartar will be dissolv'd in that manner; and as the Salts of this Viscid raise all these Tumults, the Water melts them down, and the Saltpetre has contrary Effects; so that the Viscid becomes dissolv'd, and is in a fair Train of being wash'd off: In this Case also, the Chalybeate Waters of the mild Kind have a Quality in them to fosten the Coagulum, so as to melt it into a Fluid, and to open Ob. structions gently; wherefore are they much in use, in Case of a hectical Heat, rais'd from flow Inflammations; fuch as this Fever usually produces. This is generally the Case of Coughs at the End of a Fever; the gross Parts of Blood are engaged either in, or at the Glands, where it lies and gives the Patients a Difficulty of Breath ing, and at the same time a Cough, waste they are incessantly tickled, but are not ab. to fpit up any thing: If they think fit to neglect this Symptom, it infallibly hurries them into a fatal Confumption, an Instance of which I very lately faw. The Method of Cure of fuch Coughs is by Bleeding, Epispasticks, gentle Catharticks, and Issues, in order to divert the further Separation of fuch Matter into the Lungs, by watry Liquors and Emulsions, Sal Prunellæ, Chalybeate Waters, and the like, to restrain the Blood's Motion, to dilute the sharp Salts, and to thin the Juices; and lastly, Opiates are levell'd at the great Irritation, than which nothing more invites Humours to a Part, for it throws the Fibres into Spasms and Contractions, which, if they be in a Part necessary for Life, are very sensible, and occasion Hurries in the Blood: By the Salts lodg'd any where in the Lungs, the Fibres are prick'd, and even fometimes corroded; these are repeatedly contracted, the Blood is then hurried thither in greater Quantity than can be dispens'd with by the Part; which, for want of a proper Reconveyance, is retain'd there, and inflames the Lungs,

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Lungs, and produces all our Difficulties in Breathing; for when they are stark with Blood, they can't play; and moreover, wide Steps are taken to an Imposthume, an Ulcer, or an original Confumption, which, if considerable, is always fatal. This is also the Case in bilious Colicks after Fevers, where the Patients are hot with Pain, and thirsty, as well as restless: This Colick is best distinguish'd by making a Pressure on the Belly, which the Patients can't bear, because the Pressure exasperates the Inflama mation: This being thus discover'd, in general it is cured, as has been faid, by proper Difcharges and Revulfives, and cooling Aperients, before it is too far advanced; after which Time nothing but an Abscess can be expected. As to other Peculiarities, it is hardly possible to assign them; for in general, all Inflammations, whether of the flow or fierce Kind, have fome Properties belonging to them in Quarto Modo; or inseparably, which are the Fluxion, the Impaction and the Irritation or Pain; but it is not easy to descend to the Inflammations of each Part, which by reason of their Office, their different Structure and Conformation, are able to some Peculiarities, that are to be taken

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taken into Consideration; and as these Sheets are not to exceed the Bounds of Moderation, I leave the Readers to consult proper Authorities, or their own Judgments, on the Case. Having briefly touch'd upon Inflammations following Fevers ill cured, I shall descend to some few Particulars of Stimulation observ'd after them. I remember to have met with a Tenesmus after this Fever, which however was rather originally an Effect of a Decay of Spirits; but from this it happen'd, that a small Pondus of Faces conquer'd the weakly relifting Sphin-Eter; and altho'a Glyster, and Fomentations gave immediate Relief, yet nothing but Nourishment and Cordials gave fuch a Quantity of Spirits and Nutriment, as that this Muscle grew strong, and the Tenesmus vanish'd.

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MANY, especially Women, have been subject to Fits of Vapours, cold Sweats, Apprehensions, and unaccountable Fears of Death; every small Disappointment dejected them, Tremblings and Weakness attended them; and as these were the Consequence of a broken State of Blood, sew Spirits remain'd, but those that were lest were, or seem'd to be, very moveable: Weakness could not but attend such

a Fit, because the few Spirits they had were to have been employ'd upon the Heart and Stomach, in order to drive the Juices forward, and to complete Digestion; whereas these Fits expend them in a continued Series of Thoughtfulness, Apprehensions, and other needless Cares and Anxietudes; and, perhaps, in convulsive Twitches: I know fome deny, that the Spirits do ever move fwiftly; but let them be reconcil'd to themfelves, by their contradicting themselves elsewhere: Wits are not oblig'd to have good Memories. This Illness is recover'd by Chalybeates; and fometimes Opiates are to be given, where the Spirits are reftless or tumultuous; Bitters are also of good use: I have known an Infusion of Bark and Steel in Wine, effectual against the Hysterick Symptoms of Giddiness, Pain in the Forehead, Coldness of the Head, and Tremblings.

There are many Reasons why the Pulse shou'd be frequent after a Fever is gone off, and yet not quick, but I advise Practitioners to be aware of this Matter; the Frequency of the Pulse only requires that we caution the Patient against Passions, and their dangerous Appetites. It is not very natural to suppose, that a Person who has

been scorch'd with a Fever, wou'd deviate into the drinking of strong Liquors, and have a greater Regard to their Spirits, than to their Thirst; but they who think so fayourably of Mankind are deceiv'd. I have wonder'd to observe the Frequency of the Pulse continue; when the Celerity was gone. and the Fever had pass'd off by proper Emunctories, there was good Reason to sufpect a Hectick wou'd ensue, till I consider'd, that the Fever had been carried off, and that this Frequency and Heat were unattended with bad Symptoms, found a bold Demand made for spirituous Liquors: Forbearance is all that is required, unless the Patients continue to be obstinate and beyond advising, for then I don't know what Business the Physician has to do, or how he can be of Use.

I have in two Persons advanc'd in Years remark'd an odd Mixture of Pulses, namely, I have observed in them, labouring under a Fever, a quick, and yet a rare Pulse; this will not be easy to be conceiv'd by such as have not consider'd the different Modes of Pulsations; but it is not hard to explain, for a Pulse may not beat often, and yet, when it does, may give a smart and quick Stroak,

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that is, may jerk the Finger, and recede fuddenly from it, which is the Case of the mention'd Pulsations: But it is not quite so easy to account so for these Pulses, as to found any Indications upon; Practice best convinces us what is the Reason, where it cannot be disown'd, that we are on fich Emergencies oblig'd to proceed in the tentative Method, supported however by some Analogy: We know, for Example, that rare Pulses are converted into frequent ones, by giving the Patients volatile Salts and Chalybeates, or other ponderous Drugs, in great Plenty; and we know that a quick Pulse is made flow, by relaxing and diluting Remedies; from whence it feems a legitimate Inference, to fay, that Celerity proceeds from a Stimulus within the Vessels, and an exalted Elasticity of the said Vessels; and that Rarity is occasion'd by the want of a Stimulus, and a flexile Disposition of the Fibres of the Vessels: Now as a rare Pulse infers at last a slow one, they are only different Modes; but as a quick and flow Pulse are not compossible, but a quick and rare one are, the Remedies are opposite; we must then blend volatile Medicines with diluting ones, because the Volatiles hasten I 4 the the flowness, and the Diluters relax this Elasticity; fo that the Pulse will return to its natural State. I find, by daily Experience, that these Pulses are not at all underflood by common Practitioners; and as there is an absolute Necessity for an accurate Knowledge in them, I shall illustrate them by a very short and familiar Example; where, if you substitute the Word Pulse for Visit, the whole Mystery will be readily unravelled: Thus Persons may very rarely, or feldom make a Visit, and yet retire quickly, or make a short Stay; and again, they may make frequent Visits, and be flow in retiring, or stay long; or they may make frequent Visits, and retire quickly: But it is not compossible to retire flowly and quickly at once, or to make Visits frequently and feldom at once. Now frequent Pulses can hardly be such, unless there be a quick Retreat; were it suppos'd to be otherwise, it would be a Supposition merely Chymerical, because the Notion of Frequency would fall, if the Pulse made any Demurr upon the Finger, and the Diastole would not bear any Proportion to the Sy-Hole: For such as call a low Pulse, a flow one, and yet put their Hooks into the Harvelt, Calum ipsum petent stultitia, and ubi

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ubi prava stultitia, bic summa est insania: This is an Ignorance that merits not Pity, but Justice; 'tis an Oversight in the Magistracy of Physick, that these shou'd be suffer'd to make such an irregular Harvest, and commit fuch accumulative Homicides among the King's Subjects! Melons and Cucumbers are not near so baneful to the Health of Mankind, as are these Reptiles, who have neither the least Notion of

the Theory or Practice of Physick.

PERHAPS we may find Reason to lay some Blame on the Air for the frequent Relapfes; the Air is so far insolubrious as it deviates from any of its usual Seasons: If, for Example, the Summer shou'd chance to be immoderately hot, or wet and moist, the former renders the Blood too falt and thick. as the latter causes a Retention of the Perspirable, and fills the Vessels with too many Salts and a Load of Matter, and the Pores or extreme Parts being unhing'd for their usual Separation of the insensible Difcharge; and as these Excesses of the Season are yet continu'd, the same Disorders do yet subsist; but altho' it proves true, that this State of the Air affords fufficient Grounds for weaker Constitutions to fall into Fevers from Contagion, yet once a Diforder

order has begun from the Fault of the Air in some few; the greatest Cause of the Continuance is Infection; where any one labours under a Fever, all their Acquaintance as well as Relations make frequent and long Visits, at all Seasons of the Disease, and how many are exposed to Danger from this one Article, to what they are from the Infalubrity of the Air, I think it needless to mention; because all do in general guard from the Inconveniencies and Inclemencies of the Seasons, whereas People are forward to shew Respect to their Kindred or strict Acquaintances, and throw themselves indifcreetly as well as indifcriminately into immediate Hazard, from the morbid Steams they fuck in plentifully from the Diseased: I think therefore the common Method of acting rationally enough in the Plague and Small-Pox, ought also to obtain in Fevers and then we should find fewer sieken of this Distemper. It is very remarkable that a frosty Season quells Fevers; that is, a dry and cold Season locks up the contagious Parts, which are melted and diffus'd in a wet one.

I have been much amaz'd to find how little Regard has been had to the Pulse af-

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ter a Fever: but when we find Mistakes on this Point to prove of fatal Confequence. one wou'd think it of Moment to be inform'd about it; if we neglect this Matter, we may pronounce the Patients plac'd in a State of Recovery or Health, when they are actually dying; and as I have known this to have been the Case oftner than I cou'd wish, even where I have been unkindly treated, it deserves a Remark: What a Figure must a Physician make in a Family, after faying and declaring that his Patients are past all Danger, and that in a few Days time he shall have the Pleasure to hear they are abroad; when he hears they are abroad, and have travelled to their Grave? The loco-motive Faculty, the false Appetite, and the cool Habit do often deceive us, but it must be an odd and strange Indolence of any Attendant not to examine the Pulse; if that does not coincide with the former Symptoms, we have Reason to fuspect some Snake in the Grass; a small and quick Pulse, with a gentle Degree of Heat, accompany'd with a Thirstiness, do either argue the Fever has not quite left the Patient, or that there will be a Relapse. Indeed, where a Physician attending has had no bad Symptoms appear for fome Days past, his Modesty will prompt him to bid adieu to his Patient, and wait their Orders upon the first Emergency; but not to see Danger, when it is at Hand, is a strange Blindness. I have never feen these quick Pulses, after great Part of the Fever was carried off, but they were either follow'd by Hecticks or Returns; either are dangerous; for Hecticks shew some inflammatory Disposition of the Blood, and is not remedied without Bleeding, and the mineral chalybeated Waters or Milk: And Returns can't fail of being dangerous, because the Fever returns, when the Spirits are exhausted; but much the worse Case is a Catachrestical Crisis, and here it is very many are deceiv'd; where many Efforts have been made to unload the Vessels by Sweats, Stools, and fuch like, of the morbid Matter; where the Feyer seems so diminish'd, as hardly to appear; and yet so six'd, as to leave the Patient very weak: In this Case they seem in an indifferent State, and this Condition is mistaken for Weakness. Here all we can do is to persist in the Use of fuch Specificks, as are proper for the kind of contob someon, while at

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kind of Fever, and to nourish strenuously, to make a Prognostick, and save Credit.

Opiates in Fevers are never requir'd from the Fever it self; some Symptom must arife that indicates them, namely, great Pain, excessive organical Discharges and Reftlesness, or some Hurry in the Spirits; thus, in a dry Asthma, where there is no Cough, no Spitting, and yet there is an Orthopnea or fuch a Difficulty of Respiration, that they cannot breath, but whilft they fit upright, Opiates are indicated after proper Discharges made, blended with volatile Spirits, to restore the Expence of Spirits spent upon the Muscles of the Breast. during such a struggle, and to hinder their further Excursions, by lessening the Sense of Irritation: All organical Discharges arise from Irritations of the Glands, and they being thus provok'd spue out their Contents. for which Irritation, Opiates are specifick, and in Truth, Convulsions are produc'd no otherwise than common Diarrheas: For as in the latter, fome acrimonious Parts lodg'd in the Intestines, do fret and contract the Glands, and they do hereby throw out a large Quantity of Matter from the Blood; in like manner, some irritating Matter

Matter lodg'd any where in the Nerves irritates them strongly, and their Vibration invites a more copious Secretion of animal Spirits thro' the cortical Part, and an irregular Instux of them into some particular Nerve, and so raises a Convulsion; and therefore Opiates are equally, and for the same Reason requir'd in both these Cases; that is, to allay the Sense of the Part, by relaxing the Nerves, and so to prevent the Consequences of Irritation.

A certain Person, who was near Sixty Years of Age, and has travell'd from Fever to Fever for some Months, was cured by me of a Fever about a Year ago; but fince that Time till this, namely, till Friday May the 24th, 1728, I have not heard of him, he having committed himself to the Management of an Apothecary. On Monday the 20th of May, being in a Fever, he was feiz'd with a violent Hamorrhage, and in his Legs, Breaft and Neck especially, Spots broke out of a Violet Colour, of the Diameter of two Lines of an Inch in Circumference; his Pulse, when I saw him first, was exceedingly weak, from the excessive Loss of Blood; on Friday, which was the first Time I saw him, his Blood still issued from

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from his Nostrils very plentifully, and dropt out in Bubbles; it smelt most offensively, insomuch that his Attendants could not bear its Stench: In order to curb the Flux, I gave him internally Acid Spirits, Glutinous Medicines, Stypticks, and cool Cordials; externally I advised Turundæ to be thrust up his Nostrils, sprinkled with astringent Powders wetted with astringent Tincture of Steel.

But finding little or no Success attending these Remedies, I order'd him to blow out the Cake from his Nostrils, and caused them to blow up a Powder compos'd of Colcothar and common green Vitriol; upon which he complain'd, as is usual when this Caustick Mixture is made use of, violently of Pain, and bled afresh for a while; but presently after the great Bleeding stopt at the Nostrils, save that a little Quantity ouz'd from the Nose and Mouth till next Day; and then gave him astringent Remedies.

THE Bleeding from his Nose ceas'd very much, but his Jaws began to issue forth; the Blood from thence also smell'd very foetid; and thus, for seven Days after my coming to him, the Blood broke out in several

veral Places in small Quantities. The Continuance of the Stypticks externally, and of the Remedies internally, quell'd the Bleeding so much, that we had Leisure to have Regard to the Fever; wherefore I order'd him a Bolus of Sang. Dracon. Terr. Japon. Croc. Mart. aft. Sal. Vol. C. C. & Conf. Rofar. Vitriolatar. every four Hours, and fix Spoonfuls of a Julap, with Ag. Latt. Alex. Cinn. Fort. Sal. C. C. v. Sp. Vitriol. Sal. Absinth. Syr. Limon. & Marg. p.p. of which he also took six Spoonfuls in his Faintings, which were now frequent: The next Day his Urine, which hitherto was citrin, fubfided well, and continued citrin and fubfiding the Day following; fo that on Friday I gave him an Infusion of Rhubarb, which mov'd him twice or thrice gently; after which, his Bleeding stopt entirely, his Fever went off; only as a Sharpness of Blood still remain'd, he was hectical, for which I order'd him the following Remedies, being afraid to order him a Milk Diet, because he was Afthmatical, and fubject to a spitting Cough, heaving up much Phlegm from the Bronchiæ; Sc. Pulv: Teftac. cum Decott. Rad. Chin. Sarf. Rafur. C. C. edulcorated with Rad. Eryng. Condit:

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I had forgot to observe, that I was assured there were fair Remissions of the Fever, and was put in mind of the Bark by the Apothecary, which I consented to, till I was convinced by a small Trial of its Inessicacy, either for the Fever or the excessive Hæmorrhage.

This History shews us, that Baglivi was mistaken, when he affirm'd, that a petechial Fever was never seen to end well, if a great Hæmorrhage accompany'd it, and if great Symptoms attended; for besides the Bleeding, the Patient swoon'd very often, and was very restless.

As every Physician is oblig'd to act according to Reason, he owes so much Justice to the Publick and his own Reputation, as to communicate his Grounds of acting.

I take this Case to contain a Number of Particulars, very rare and uncommon; and, indeed, it may be call'd a particular Plague; forasmuch as the Patient himself could have been no more fatally engaged in an Epidemical Pestis with the like Symptoms, than he now was.

His Blood, which the Apothecary took from him before my coming, was extremely fizy; and we all know with how many vo-

latile Salts such Blood abounds; the Coagulum at Top is a Congeries of foapy Particles, that is, it wants the watry Part of the Serum, which is evaporated, and the Oils are, by frequent Circulations and Occursions with the volatile Salts, united into a Coagulum, as it happens with the Mixture of rectify'd Spirits of Wine and Spirit of Salt Armoniack, or as it happens to Salt of Tartar and Oil of Turpentine, or lastly, as it happens to Oils and Salts of Fern, or any other fix'd Salts boil'd in Water to the Confistence of Soap; and as this Mixture of rectify'd Spirit of Wine and Spirit of Salt Armoniack turn'd into a Jelly, is, by a moderate Heat, melted again, so is this Rheumatick Blood remelted and turn'd Liquid by a gentle Fever in the Blood, and becomes fo disfolv'd, that the Globules and Serum are confus'd and thinn'd to fuch a Degree, that it swells the Mass and distends the Veffels, and escapes thro' the narrowest Crannies; nor am I certain whether this Sort of Blood can ever be recongeal'd, as I am fure it can be disfolv'd; at least I am well assur'd, in fuch like Cases, there is no recongealing fome Fluids, which have in like Manner been dissolv'd: If this be true, then if the whole

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we th than t whole Mass were corrupted, we could not recover such Persons; and, as Experience teaches us, the Discharge of such Blood is absolutely requir'd, for the old Adage, tolli quod putridum, non alterari postulat, is a fettled Truth: Now if the whole were to be discharg'd, Death must ensue; wherefore Recoveries in such a State are to be call'd wonderful, and well manag'd, if the greatest Part be corrupted only.

BE this reasoning how it may, the Blood was fo dispos'd as to run out at various Pasfages; and fure we are an impetuous Motion upward, a Thinness of Blood, and a small Resistance at the Orifice, are sufficient Causes to produce this Accident. The Intentions of Cure in these Circumstances were then to be level'd at curbing and diverting this irregular Bent, at thickning the Juices, and so clogging the Motion, and at sodering the Breach by proper Topicks: As to Diversion of the Fluxion by drawing off Blood, we could not allow of it at all, because the Loss of Spirits and Strength from the vast Quantity of Blood that had been spilt, could allow of no farther Expence; we therefore had no other Expedient left. than to administer Acids, Stypticks and glutinous K 2

tinous Remedies, which might agglutinate and incrassate the Juices, and close up the Vessels; to explain how these Effects are produced, we need only take a View of the Bulk, Figures, and other mechanical Affections of these Remedies, which I will do as briefly as I can, or the Shortness of these Sheets will allow of.

FIRST, as for Acids, they are specifically beavier than Blood; their Figure is, as far as Glasses and their stimulating Quality inform us, somewhat Conical, or they are minute Cylinders, and they are hard; whereas the Blood contains both Oils and volatile Salts in it; the Oils are foft, eafily penetrated into, and the Salts are elaftick: These Salts by their Figure penetrate into the Oils, attract the oily Particles, and cause Cohesion, or what we call Coagulation; from whence they thicken the Juices, and render them less apt to escape through the small Orifices; and moreover, they attract the volatile Salts, and join in with them, and prevent future Commotions in the Mass of Blood.

SECONDLY, as for Stypticks, they by their Weight and Figure move forward indeed, but flowly; forafmuch as the aculeas ted Figure of the earthy Parts, join'd in with tinotes

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Acids, arrest the Juices in their rapid Motion, and help to carry the Humours downwards, as appears by the Urine subsiding soon after their Administration; and moreover, earthy Parts have the same Effect in our expanded Blood, as they have in Retorts upon Gummose Bodies; namely, they hinder their Contacts, and diminish the Swelling of the Juices: They stimulate in a small Degree, which causes a Corrugation of the Vessel; and one thing may be observed, viz. that the Blood carries all Medicines the more readily to the Part that is open, because there is the least Resistance to Motion.

LASTLY, As for glutinous Medicines, they are light and cohesive; wherefore in the Circulation they are not likely to be hurried much forward, be the Velocity of the Blood of what Degree soever, since their Matter bears no Proportion to their Bulk, and their cohesive Property causes 'em to cling and stop every where.

THESE Remedies then were given and applied, because they were eminently requir'd, and by their Continuance in a greater Quantity, and by giving them stronger and stronger, and lastly by a Caustick Powder to sear up the Orifice, the

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Bleeding was rather much curb'd than intirely stop'd till Friday; but as this ouzing did not threaten immediate Hazard, and the Fever, which had been quite neglected hitherto, demanded our Care; we were oblig'd to be watchful how we proceeded in this ticklish Affair; for if we gave heating Remedies, which the Pulse requir'd by reason of its Weakness, and the Fever wanted in order to further a Concoction, and to expel the morbifick Matter that remain'd yet within; then we run the Rifque of causing a Return of the Hæmorrhage, which was not at all to be wish'd for, fince the Patient was already fo greatly weaken'd; and if we did not regard the Pever by proper Helps, fatal Symptoms wou'd have attack'd him, and thus he wou'd either have split upon the dangerous Rocks of Deliriums and Convulsions, or of Deliquiums, and continual Weakness, and Death wou'd have either way taken him off; wherefore I prescrib'd him the following Bolus to

be taken every fourth Hour, Sc. of Sang.

Dracon. Terra Japonica, confero. Rosar.

cum Sp. Vitriol. acidulat. and the Julap

compos'd of Aq. Latt. alex. Paon. C. Sal. Absinth. Sal. Vol. C.C. Sp. Vitriol. & Syr. Limon. g

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Limon. by which his Spirits were reliev'd, and yet the Bleeding did not return; but the Water subsided regularly, and then I gave him a purging Potion of Rhubarb, upon which he was freed of his Symptoms, and nothing remain'd, save a hectical Heat; which to allay, I order'd him a Decoction of China, Hartshorn, Eryngo Roots candied, thrice a Day; an Electuary of Crabs-Eyes, Gums Arabick and Tragacanth, and Conserve of Mallow Flowers, Morning and Evening, and to drink above it a Draught of German Spaw-water.

THE Reasons I had for this Procedure were; because in all Fevers we are to look how far we can procure a Crisis, or a regular Expulsion of the morbid Matter; we are never to attempt this Expulsion, till Nature gives us Intimation of it in the Urine by dropping a Sediment, and this Sediment is to be procur'd by Art, if Nature fails in it: Now it was impossible that this Concoction shou'd ever have happen'd in the Case before us, if we consider how much Blood was lost, and consequently how sew Spirits were lest to begin, much less to complete such a Work, and therefore it was necessary to relieve them, to in-

vigorate the Fibres, and give new Vigour for the Accomplishment of such a Work by volatile Salts; and soon after their Administration, the desir'd Effect ensu'd, without the much fear'd Return of the Bleeding, which might have happen'd, if we had not blended along with these Volatiles, the Acids and Stypticks. Assoon as I perceiv'd a true and regular Sediment, it was necessary to catch Time by the Forelock, and to order a gentle Cathartick, to exterminate the Remainder of putrid Matter, which being done, Success attended our Endeavours.

I have forbore to make mention of one Method I made use of to stop the Blood, which is too rarely practis'd; namely, I caused Compresses to be apply'd on each carotid Artery, and by Ligatures upon them, they were so straitned, as to curb the Flux in a small Space of Time; the Ligatures were so order'd, as that that on the Right Side was tied under the Lest Armpit, and that on the Lest under the Right; the diseas'd complain'd a little of the Uneasiness, but bore it with Patience: This is a Revulsion rarely us'd, but whoever neglects it upon such an Occasion, must not be sufficiently

ficiently apprized of the true Method of Cures.

Rashes in Fevers are not always critical, nor ought we to be folicitous in keeping them out, as is commonly practis'd: This Mistake often proves fatal, because as it obtains among many, that it is dangerous for a Rash to retreat, the Practitioners are too forward in giving all heating Remedies to accomplish their Ends; thus are volatile Salts, Castor, Spirits of Lavender, and warm Bolus's, administer'd with a Design of keeping up the Spirits, and driving this supposed Enemy to the Extremities, whilst the Remedies prove the Discase itself. Some accidental Hurry, not at all depuratory, rais'd in a certain State of Blood, produces them, and they ought not to be regarded at all; for the Fever being our Point in View, we are to have Regard only to it. by making fuch Discharges as the Nature of the Fever will bear; if we act otherwise. we hasten Deliriums, and other fatal Symptoms: A Rash is not unusual upon a Fever. caught by Cold, and eating too cooling Fruit. If the Pulse be strong, if Symptomatical Sweats flow, the Tongue be white and inflam'd, and the Patients be fcorch'd with with Heat, and yet the Urine is not concocted, to what ill Purposes do we not give Expellers to keep up the Fever already too high and inflammatory? This Method produces the ill Effects we fear from the Rash's Retreat; and besides, it makes the Rash itfelf retire, in lieu of which our Patients are thrown into Ravings, Convulsions, Diarrhœa's, Dysenteries; the Tongue grows black and cracks, and Affairs, which by a moderate Regimen would have taken a favourable Turn, grow worfe, and Death enfues: How unskilfully have we heard many relate their Patients Misfortune? That notwithstanding all their Care and Art, their Patient flipt thro' their Fingers; that nothing could keep out the Rash, that it disappear'd and ruin'd their Friend: Never fuspecting all the while, that they rode Post out of the Road. Rashes are not so dismal a Phenomenon as they would endeavour to persuade us; for before the Crisis, or Concoction, you have nothing to do, only to give a ftrict Eye to the Nature of the Fever; if it be too high before Concoction, take Blood away, as if there were no Rash, and keep your Patient to a cool Regimen; but if it be a flow Fever without Malignity, which will be known from the Strength of the Pulse, and by a Freedom from any bad Symptoms, then are we to administer warming and digestive Powders, Drops, or Bolus's, till the Water becomes concocted: or lattly, if the Fever be malignant with a feeble and low Pulse, and be attended with flow Deliriums, Convulsions, and other difmal Accidents, we are in general to enliven the Circulation with volatile Spirits, to apply Blifters, and administer all that is cordial and invigorating, or the Blood will not only stagnate, but the Rash will mortify. Where the Rash breaks forth symptomatically, and we have acted with Judgment, the Water will begin to be concocted; and altho' the Rash should continue, yet gentle Catharticks will then agree, and carry off both the Rash and Fever: This Method I have follow'd with Success, and have had some late Examples to confirm the Practice. If we confider the Matter seriously, the Nature of this eruptive Fever is fuch, as to admit of Eruptions, as common Fevers do of Sweats; and as these are justly divided into a Symptom and a Remedy, fo are Rashes before Concoction a Symptom, and do prove that there is a great Commotion in

in the Fluids; whereas, if they appear after Concoction, or after a stable and laudable Sediment in the Urine, they alleviate; and prove that the offending Matter, which refided before in the Blood, is now translated from thence into the Extremities, and a Calm enfues; we are then to confider whether the whole Matter be moved from within to the Skin, or whether Part only is expell'd: This we may readily discover from the Degree of Relief; for if some Fever do yet remain, it is certain some Relicks are detain'd in the Vessels, which require Care and Skill to exterminate: In either Case, Lenients have this good Effect, that they do, without weakning Nature precipitate the morbifick Matter out of the Blood, as I have found to the great Good of my Patients, and of my own Reputation. Be cautious then how you inflame, imbibing imaginary Notions of deleterious Matter being the Cause of these Rashes: It is prepofterous to judge of the Fever by the Rash; we must on the other hand know the Nature of the Rash from the Fever: this being prior in the Order of Production, governs our Method of Cure, and that, being a Dependent on the Species of State then

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then reigning, requires proper Remedies also for itself; which Methods don't at all contravene, and fo may jointly be made use of. By what has preceded, I hope no one will ever conclude it necessary, or ever expedient, to attempt to cure a Rash at all Events by Bleeding, as is the Custom of fome, deeming all of them Inflammations and symptomatical Eruptions, enforcing their Practice by particular Successes; for it would be much the same fort of Reasoning as the following, to wit, very few there are who have not cured Diarrhœa's in some Particulars by giving Aftringents; would it therefore be just to conclude, that a critical Flux in the Fever should be treated in this manner? Or let us suppose them Inflammations, can we be so lavish of Blood where the Strength is decay'd, and for want of Spirits, the Puftules are in the next Con_ dition of turning into a Gangrene; and in Effect, I have feen the ill Consequences of fuch a Practice in the last Case mention'd which ought to make us cautious: There are other forbidding Circumstances, which as they don't immediately call up my Attention, I shall omit; having no other Views at prefent, than to relate Facts which have fallen

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fallen in my Way. The great Sydenham has given Rife to many Errors of this Kind, which however are not his, but his Followers Faults: He calls Inflammations of any Sort Intercurrent Fevers, and treats them as bare Inflammations; but let fuch as follow his Opinion recollect, that he no where encourages Bleeding in malignant Pleurisies, but on the contrary disapproves of it, faying, that they won't bear it so often as others do; and elsewhere he inculcates very judiciously, that symptomatical Pleurisies, or other symptomatical Inflammations, will not bear fo much Bleeding as effential ones; from whence it may fairly be deduced, that by fuch Fevers he only means effential Inflammations, in which there is, doubtless, a great Latitude allowable, and even necessary, in Bleeding: But where it is evident that the Rash is Secondary to the Fever, it must be allow'd, so to depend on it, as to be remedied by the Methods proper for its Cause; because, otherwife, we might take off the Rash, and the Patient also.

We sometimes meet with Quinzies of a very malignant Nature, and which it is to be sear'd too often prove such by Missinformation;

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formation; for as any Lentor in the Blood is capable of producing Tumors, fo, as in other Kinds of them, happens it here, that the Blood rests in the smallest Twigs of the Arteries, and the Parts become turgid: and more particularly here, because there are fo many thin and small Muscles concern'd in the Motion of the Bronchiz, that the Circulation may very readily stop here; moreover in Men the strait Ligatures they make use of daily on this Part, and in Women the exposing this Part of the Body to the Cold, are two Extremes which equally contribute to lay fuch an Embargo on the Circulation; when therefore Fevers happen to Persons under a State of Blood that is apt to flick every where, and more particularly if it be at the same Time loaden with caustick Particles, it can hardly fail of producing difmal Effects. If Trials and Experiments have any Force of proving on the Blood, what we don't deny they do on other Bodies, we cannot help faying, that we have irrefragable Arguments to prove, that there are Salts of various Kinds in our Mass of Humors: For what plainer Proof can be brought, that we have Acids in some of our secreted Humors, than that they become Vitriolick by administring, or being blended with, terreous Medicines, or that there is an alcaline Salt in the Serum, when it will turn Syrup of Violets into a fine green Colour in an Instant; and that this Salt is of the volatile Kind, when the same Serum precipitates sublimate Mercury out of Water into a fine white Powder? But we are of late, by our refin'd Mechanists, persuaded to lay aside our Senses, and deny Facts, as being of no Use to Practitioners: We may partly know of what great Prejudice this Cant is to the Practice of Phylick, when we see such Men feldom fucceed in Business: For either is lame without the other, Chymistry and Mechanicks must go Hand in Hand: To deny this, is going further than the great Dr. Sydenham did, who accounts for Malignity in the following Manner; 'Now, fays he, if any one asks me, how it comes to pass. that as malignity consists in most hot and ' spirituous Particles, there shou'd so feldom appear any Signs of a Fever, even ' in the most Malignant Diseases; I wou'd e give this Answer, first in the greatest Infrance of Malignity, it is very plain, that the morbifick Particles are fo fubtle, acu-

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the

leated, when it first begins, that they pass ' thro' the Blood like Lightening, and, as if the Spirits were thunderstruck, they don't raise the least Commotion, so that the Sick dies without a Fever: But in a less Degree of Malignity, which is common to other Epidemicks, the febrile Symptoms are fo little to be perceiv'd. from a Confusion in the Humors rais'd by incongruous Particles contain'd in the ' Mass, that regular Symptoms can't be ' expected, because the whole OEconomy ' is subverted, and the Fever is depress'd.' -Thus that ingenious Gentleman who decry'd all Theory, but his own. To return from whence I digress'd, these Inflammations are of fo malignant a Nature, that the common Discharges of Blood can't be fuffer'd, the Matter impacted for want of a due Spring in the Fibres, and by Reason of its congealing Acrimony, stands still, and never retires, but turns either to Putrefaction or a Gangrene; nor is it done in the ordinary Manner, where the Blood stops, because the Parts are too full; but the Blood thrown in, fixes and preys upon the Fibres, and acts as it does in a Carcass, by turning more acrimonious, and huffing up

the Parts, and turning into a cadaverous Putridity: Then it is the Parts feel pappy, begin to fmell rank and earthy, they puff up, look lurid, or of a deep Violet Colour, and lose all Sense of Pain; the Pulse becomes formicant, or small, weak and frequent; a flow Fever attends, and their Spirits being exhausted, they go off a little delirious. This is an exact Description, as Observation has inform'd me; Patients are not too nice in observing whether a Fever did not precede, which I am apt to fufpect; because in the whole Course a Fever fubfifts, and moreover Deliria fucceeding, make it still more to be presum'd, that this fatal Symptom depends on a Fever; and fuch Inflammations are very rare with us, where the Blood, I mean, is only acrimonious; but fuch Gangrenes frequently happen from a strong Inflammation not timely look'd to: Because where the Blood is copiously driven into a Part, so as to distend the Fibres far beyond their ordinary Tone, and then to stagnate, is no great Surprize; but it is not at all usual for caustick Particles to be deposited upon a Part, and ravage it, as if it was delignedly prescrib'd. This latter then I suspect to be a SympSymptom of a malignant Fever, and we are to have a particular Regard to that; making fuch Discharges as the Inflammation requires, and the Fever admits of: And Blifters ought to be encourag'd for the fake of the Fever and Revulsion also: Befides Cordials for the Spirits, we are to attempt to carry the morbifick Matter thro' fome distant Channel, if the Water subfides, and the Strength allows of it: And this ought to be done by fuch Catharticks, as will move without heating the Blood. If we fear there will be any Danger of its retreating into the Blood again, and of its fiezing on some more noble Part, or if it has actually retreated, we must be fure to make proper Discharges, whether by Bleeding, Physick, or Blisters to recal it to the Extremities, and these must be done with all possible Expedition; for I have seen the Fate of the Patient determin'd in lefs than two Hours upon fuch a Retreat, where being call'd in too late, there was no Room left for any Prescription, the Patient being in her Agony, who a little before was not fo much as suspected to be in the least Danger. If there be Matter lodg'd, and we have attempted other Means to break T. 2 the noor

the Impostume, a gentle Emetick will effect it, if it can safely be done: Besides these Means, we ought to anoint the Part affected with Liniments, made up of Emollients and Discutients, so temper'd, as to aim more at Discussion or Suppuration as the Case requires; wherefore Sperma Ceti melted, Oil of Almonds and Wax may be made into a Liniment, with an Addition of Spirit of Wine camphorated, and Spirit of Hartshorn; and if we find no Success in this, we ought to make Use of Fomentations, which by their actual and potential Warmth, will move the Humors deposited, and remand them into the Circulation: fuch as the following is, to wit, we may boil Mallow-Leaves, Roots of Lilies, and the Tops of the leffer Centory in Milk and Water; and when we bathe with Stuphs, we add some rectified Spirit of Wine every Time we foment; or apply Cataplasms to try to suppurate, if we see no Hopes of its being capable of being discuss'd, namely, made up of Figs, Lily-Roots, and Mallow-Leaves boil'd up; or we may make use of both together. If all these Efforts don't succeed, the Patient is justly deem'd to be past Recovery: For they who can't bear I

bear Discharges, can't bear Pain; and therefore Causticks apply'd in order to ripen and bring out the Matter lodg'd, do but exasperate, without promising any Relief-If Bleeding take Place, it ought last of all to be perform'd in the adjacent Places, namely, the Tongue: Because particular Discharges ought to succeed general ones; and because if it was done in the Beginning, the Bent of the whole Mass wou'd turn into that Channel; as we fee it happens in a want of the Menstrua, where we never bleed first in the Foot, because the Blood runs with greatest Ease to the Part unloaden, and crouding into the Vessels already obstructed in its Passage downwards, they lose their restitutive Force thereby, and the Obstruction becomes more rivetted; whereas, if we abate the Quantity at a distant Part first, and administer Aperients for fome Time, then we put a Force upon the Vessels of the Uterus by bleeding in the Foot: Because this Force, which cou'd not fail of being prejudicial before, where the Part was not fitted to receive its Impression and Impulse, by Reafon of an Adhæsion of viscid Humors to the Walls of the Vessels, without Danger of a Rixis. L 3

Rixis, or Rupture of them, is now of Use; because a Moment added, when the Humor is prepar'd to yield, and the Vessels are render'd duly slexible, opens an Obstruction at a proper Time; and I think it is plain that the Blood's Force is encreas'd towards any Part, where a proper Quantity is drawn off; that is, its Velocity encreases in Proportion to the Impediment taken off: In like Manner, if Bleeding be allowable, it ought to be done in the neighbouring Parts last, because it then acts as an Aperient.

Tremblings succeeding Fevers, are more or less dangerous, as they are more or less universal, or as they are accompanied with the Fever: But in this Case, we may be liable to a Mistake; for the constant, I speak of perpetual and universal Tremors, but alternate Motion of the Muscles over the whole Body does so agitate the Juices, the Fibres contain in them, that it is no Wonder there shou'd be a Heat, and even Sweats of Labour, as well as a high colour'd Urine; but if the Patients Tongues are dry and parch'd, it is reasonably suspected that a Fever of some Kind lurks, and then this Symptom is a Translation of the morbifick Matter

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Matter on the Nerves: And Tremors without any Fever, are in Truth no other than a Translation, with this Difference, that in the latter you have only the Translation to remedy by Discharges and Alteratives, whereas in the former, due Regard is to be had to its original Cause, when we are often disturb'd in our Method by Indications thwarting each other. Were no other Consideration to prevail than the bare Symptom, we ought to draw off the Matter from the Head with Blifters, Setons, Caufticks, Catharticks, and indeed, by Discharges of all Kinds, which prove often unfuccessful, as I have feen many Instances that were Reproaches to Physick, and all its Extent; we ought to administer volatile oily Salts, Castor, Assa fætida, Gum ammoniack, Pulv. ad Guttet. and others of this Kind, in order to correct the Acid in our Juices, and to supply the Expences of the Liquidum Nervorum, occasion'd by the continual Excursions of them into the Nerves and Muscles, and lastly, Opiates must be blended along with the Alteratives, which are necessary to allay the irritating Particles lodg'd on the Nerves, and thereby to prevent these Tremors: When they are a folitary

tary Symptom, they are tedious and lasting; and by a like Reason, they must be very dangerous, if they are attended with a Fever; for there is scarce Time enough left to accomplish so exorbitant a Symptom, nor are there much Grounds to make Difcharges, which are generally highly necesfary: The Chorea Santti Viti, or Vitus's Dance, is but a Kind of Trembling, where the Feet, Hands, and all the Parts are alternately mov'd, and constantly; and which I faw lately come on at the latter End of a Fever, where in other Fevers Deliria us'd to succeed, and which prov'd fatal; for I question, if a free Liberty had been given to apply Blisters, (as they were strenuoufly refus'd, and two only were by a Sort of Force apply'd to the Arms) whether it cou'd have been possible to have revuls'd fo rivetted and confirm'd a Cause, fettled by two or three Relapses: The Blood by fo many Fevers grows sharp and caustick, and Irritations must ensue of Course, which can't be allay'd without Opiates, which in the present Case can hardly be dispens'd with, because the Spirits are depress'd with them, and, losing their Agility, their very Intercourse with all the Parts

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Parts is cut off; for it is difficult to hit upon a middle Way, between too much Motion and none at all in these Cases: The Spirits are few, but nimble and active; if we give Remedies to curb their Agility, we by fuch Means depress the few remaining, and then all Action is loft. Dr. Willis, in Convulsions, cries up a Sort of an Elixir of Vitriol, and other Authors have done the fame; others praise extremely astringent Remedies, in these Cases, among which are Misletoe, and Alchymilla; among others Waldschmidt puts the Question thus; Quere, In what does the specifick Virtue of fome Remedies in Convulsions confift? He answers, In their Astringency, which Vegetables enjoy, v.g. Rue, Betony, Marjoram, Lily of the Valley; from whence the Pores being dilated, they are reduc'd to their former and due Figure, and the rushing in of heterogeneous Particles are hinder'd. I take it for granted, that Astringents are found by Experience useful in Convulsions, upon which Postulatum, it is reasonable to examine why Stypticks are blended along with others which abound with volatile Parts; there is a certain Ten-Sign of our Nerves, which upon the least AcriAcrimony that falls into them, causes them to vibrate exceedingly; were they lax, this cou'd not happen, for that Condition of them makes us liable to Palsies; and were they rigid to some Degree, they wou'd not so frequently tremble; it is therefore a certain Degree of Elasticity of the nervous Fibres that makes them move upon any disagreeable Particles lodg'd in their Cavities: Now Aftringents have the Power of making our Fibres more rigid, and consequently less liable to these Tremblings: For rigid Fibres are more flowly mov'd, altho' they retain their Impressions longer; but Fibres grow rigid, by being made more compact, that is, by contracting them, the Fluids in them are fewer, their Fibres approach nearer to each other, and become more folid, and grow specifically heavier; hence do they require a greater Moment of Fluids to move them. These Tremblings, accompany'd with Fevers, are known by the Drought and Want of Appetite, along with a Quickness of the Pulse and Heat, with a parch'd Tongue, and Pains attend the Convulsions, especially at the Infertions of the Jaw-Bones. the noque doidy gayant you Phave

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I have once observ'd an odd, and almost unaccountable Pain in the Back, follow the Shiverings of this Fever, which was attended with an obstinate Costiveness, and resembling that in the beginning of the Small-Pox, but much more violent and continual: The Party feiz'd had a quick and ftrong Pulse, was exceedingly hot, and his Face was as red as Scarlet; the Pain afforded no Respite, till it took off the Patient in a Day after I faw him, nor had he been seiz'd above two Days and a half till it carry'd him off. As I faw him but twice, it is difficult to account for this Symptom, and we could not obtain Leave to open him: so must be contented to offer at a Reason of so unusual an Accident. The Pain was fo acute, that it perfectly diffracted the poor Man, and made him cry out most vehemently and continually till he died. Neither Bleeding, nor Glyfters, nor Physick, nor Opiates, nor Fomentations avail'd the leaft: He had no Passage downwards; and if he offer'd to stretch himself backwards, he bellow'd with intolerable Pain. I enquir'd whether the Patient had fuffer'd any Injury by lifting heavy Loads. which his Trade might subject him to; but he

he answer'd in the Negative, and assur'd me it was merely brought on by Cold. If we may venture to give Reasons for this Violence of Pain, and for its carrying the Patient fo fuddenly off; we may know that a Blood render'd gross, and very acrimonious, is fit to introduce very excruciating Pains; and if we add to this, that the Pains of young Persons are more exquisite than of those more advanc'd, because Fluxions are more violent in the former, than the latter; and it is very probable, that the carrying heavy Loads at other Times, might weaken the Loins, and render 'em fitter to receive such morbid Matter: I think then, that these Pains depended on a violent Influx of fuch thick and aculeated Blood into the Capillaries of the Loins and Colon, and render'd him Costive, as well as made these exquisite Pains; for as the Membranes are extremely fensible, any Fluxion upon them will be less capable of being born, because they yield less to the Influx; and I therefore suspect the Membranes covering the Bones were inflam'd from the vehemence of the Pain that attended, and that the Bowels also partook of the Inflammation, because nothing mov'd him

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fay, or the him to Stool; the Pain being therefore fo very exquisite, a great Quantity of Blood must have been hurried into these Parts and a Gangrene must at last have been the Period of this Disease. If any Relief cou'd have been afforded to this young Man then, it must have principally been done by large Bleeding at the very first Onset; his Youth. the violent Fluxion, his great Motion of the Blood in general, and his Strength wou'd have encourag'd it; nor can I fee any more promising Remedy for such a Disorder; for doubtless it ought to have been treated, as any other inflammatory Symptom shou'd be, where the Pain points out the Quantity to be drawn off; after universal Discharges from the Veins, Cupping-Glasses apply'd to the Part affected, and scarified, wou'd have been of great Use to evacuate and unload the Parts adjacent: after which, Fomentations might have taken Place, and Glifters wou'd then have pass'd, when the inflammatory Disposition of the Bowels had been taken away; nor can it be any Surprize to Practitioners, if I fay, I wou'd have taken Blood away twice or thrice in a Day, if the last Bleeding was found ineffectual; because in such sudden, quick

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quick and violent Symptoms, we are to Proportion and haften our necessary Difcharges; what Latitude is there not allowable in Apoplexies for fuch Discharges? Where fixty Ounces are taken off in a very short Time, by which the Patients recover to a Miracle, and after which they don't complain of want of Strength; it is true, that a Symptom can't be fo lavishly treated with Discharges, as an original Cause; but it is also true, that in the Relief of Symptoms, we are to draw off as much as will free the Patient from them; and in great Diseases, we must act quickly, and as it were at once; whereas in fmaller, we proceed moderately; and where the Patient's Strength wont bear fuch Discharges as the Symptoms require, we must pronounce a fatal Prognostick, and proceed as Reason directs us in the Discharge of our Duty; after proper Discharges have been made, or rather at the same Time, I should have given him cooling Remedies of Saltpetre in watry Liquors, and have kept him to low Diet, and I am of Opinion he wou'd have escap'd: I chuse to mention this unusual Cafe, to warn others against the like, and to declare my Sentiments on it; not that fuch fuch Pains in the Loins do always require fuch a Method of Cure; for I have known Women subject to the Whites, much infested and satigu'd with them; and if they be violent and continual, they threaten a Palfy, as I have known happen.

SLow Fevers carry fo much more Danger along with them, as they make Patients indolent and unwilling to purfue proper and convenient Measures to recover their Health; they make flow Advances and Surprize with Terror, when they have fix'd themselves so as to yield with great Difficulty, if at all. The Patients feem to themselves not to have occasion for the Asfistance of a Physician, and do therefore rub on in a valetudinary Way, hoping the next Day will make a Recompense for the preceding; and they being no ways worse the following, than the preceding Day, they are persuaded that Nature will overcome; and thus have many of late been deceiv'd in their false Hopes, and have gone off infenfibly: For I have known this Fever attack some, and these the most timorous and observant of themselves, so clandestinely, as not to be observ'd; they have been able to transact the common Affairs of Life, only they

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they have complain'd of an Unwieldiness and a Lowness of Spirit, which they have endeavour'd to conquer by Wine, and have been apt to suspect the Liquor for the Morning Heat, and the want of Appetite that fucceeded: Thus having gone on for fix or feven Days in a Train of Indolence, they have been furpriz'd on the seventh Day, and have died on the eighth Lethargick or Delirious, with promising Pulses. The Shivering at the first Seizure has been judg'd an Effect of the uncertain Weather; and all that follow'd, the Consequence of Irregularity in Diet and Liquor; fo that in the Eye of their Neighbours, they feem to have died fuddenly; whereas, they in Truth have had feven Days to provide against the fatal eighth; and if due Care had been taken, their Fever would have lasted above fifteen Days, in which Sense their Death is premature. As it is evident that fuch Deaths are imputed to Neglect or Indolence, I must desire it may be observ'd, that, wherever a Shivering is fucceeded by Lowness of Spirits, moderate Heat, Vomitings, or any other Symptoms, that daily change their Shapes, or continue as they begun; these are the Effects of a Fever, which the Patients

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tients will find, by fatal Experience, are not to be dally'd with; therefore, if you are call'd to fuch, let them know their Circumstances, and not wonder you should offer to prescribe to so trifling an Illness, where fuch Neglects have prov'd fo fatal: Let them know their Mistake in Emphatical Terms: What has contributed to this their Mismanagement, is the Intermission or Remission of their Fever; had their Symptoms infested them continually, poffibly they would have been alarm'd; but as they found Relief, they flatter themselves the Disorder, whatever it be, or how great foever it be, will vanish of its own Accord. Others, wearied out with Relapfes, have hop'd their Recovery would as certainly enfue, as it had hitherto, and have deferr'd asking Advice till it was too late. As to the latter, they are blame-worthy in this, that having received Benefit by the Art of Physick, they act against the Light of Nature in postponing proper Remedies, they know they were recover'd by fo often before: and many I have known, who have been advised to forbear going into the open Air, but supposing this a needless Caution, have relaps'd according to Expectation; for it is certain, no one ought to venture going Abroad, till they have been gradually accultom'd to bear Cold, and this they ought not to hazard, till they have recoyer'd their Stomachs and regain'd their Strength; yet fo unreasonable have some been, as to suspect they have never been throughly cur'd, but that the Relicks of the Fever have occasion'd this Relapse: Wherefore, to avoid this Calumny, and unreasonable, as well as unhandsome Suspicion, I advise all young Practitioners to give strict Charge to their Patients, that they be not too hafty in their Gambols; and that if they do relapse thereby, which there is great Reason to believe, if they act contrary to your Caution, they must remember they fuffer for their own Disobedience, and must be admonish'd to look upon your Advice as wholfome, and the Effect of good Observation. The Crisis of these slow Fevers is generally deposited on the Bowels; and I have met with some Patients who have been treated in a manner not at all agreeable to their Case in Hand: Their Strength has been such, as to suffer them to walk Abroad; their Appetite has been only fo abated, as to be able to make an indifferent

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ent Meal, the Persons attending have rather suspected some Taint of the Viscera, than a lurking Fever; and their Intentions have been levell'd at imaginary Obstructions, and have neglected the Fever; Bolus's, Draughts, Infusions, and Spaw-Waters, have been administer'd to little, if not to a bad, Purpose: I think none can be mistaken, that some fort of Fever reigns, and a little Patience will quickly determine to what Species it may be referr'd; till when let no one be ashamed to look on with Attention: they will find it much fafer to stand still, than to proceed too buily; for then our false Indications pursu'd, will necessarily remove the Cause more out of View, by introducing fresh Symptoms, which are owing to ourselves: Thus shall we be confounded, and our Patients ruin'd. I think the only Difficulties, that can occurr in the Case before us, are to know whether the feverish Temperament of our Patient is the Effect of a Hectick, a Lent Fever, a Diary, an Brratick, or of a flow Fever; we know the first and second from the Mildness and Continuance, from their Encrease after Meals, and from an Atrophy introduced by Sweats, Diarrhoea's, great Quantities of Wa-Dave 1

ter, and the like; the Urine is of a natural or citrin Colour; the Hectick arises from an Acrimony in our Juices; but the Lent Fever is a Symptomatical Fever, arising from an Inflammation or an Ulcer fix'd on fome of the Bowels. A Diary does not last above three or four Days; an Erratick Fever is when Fever Fits come on irregularly, and never observe any Order; and a putrid flow Fever encreases, declines, and is all along attended with Fits, and an Augmentation of all the Symptoms; moreover the Urine is first crude, and then concocted, if it has been regularly treated. I must obferve to you, that a Diary may, by Mismanagement, be hurried into a putrid Fever; and on the other hand, I have feen a putrid Fever of a kindly Sort turn'd off in a short Time with low and watry Diet; Sweats have follow'd, and have quite carried it away: Again, Fevers have often been turn'd into Hecticks, when left to Nature especially; because by a partial Victory gain'd over the putrid Matter by Sweats, by Perspiration, by Stools, or by a Sediment in the Urine, the Blood is left of an acrimonious Nature, and irritates the Fibres every where, and raises thereby a slow Heat; and I have

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I have observ'd the flow Fever turn Erras tick upon the same Account. There is some Variety to be observ'd in the Cure of these feveral Fevers, which it may not be amiss to hint at in as brief a Manner as may be. A Diary from hard Drinking, or from too great Heat of the Sun, or from a little Cold, needs very little Help from Physick; for if the Patients will keep their Room. and avoid any Errors in the fix Non-naturals, that is, avoid the evident Occasion of it; if they make their Meals of thin Broth, Water-gruel, or Sack-whey, and if they encourage Sweating, it goes off in two or three Days: It is eafily diftinguish'd from a putrid Fever, from the different manner of Invasion; for in a Diary the Patients are not feiz'd with Shiverings, which are a Characteristick of all putrid Fevers. An Erratick Fever may be variously consider'd, for if we take it as an Attendant to a Scurvy, it is then only an Acrimony or Saltness of the Blood, which occasions Sweats at Night, and an Atrophy from thence, and which in the Day-time brings on Flushings in the Face, and a Heat in the Hands and Soles of the Feet; and then it is only treated as a faline Acrimony, by M 3 Milkalaitradi

Milk-Waters, by Decoctions of cool Herbs, by Sal Prunella, by gentle Sours and Alcalines blended, or by testaceous Powders ! But the Erratick Fever I here speak of, is truly a Fever, only it observes no Order in its Returns; and this should first be treated with gentle Discharges, such as the Nature of the Fever will bear, after which the Bark will take Place, because the Blood shifts; and this I have often experienced to be a successful Method. A Lent Fever, depending on some fix'd Cause of the Bowels, must be cured by having Regard to those Causes, some of which I shall enumerate; namely, if it depends on an Inflammation of a flow Kind, or of that Kind which the Surgeons call Phlegmons by Congestion, which it generally is of, if the Liver, Spleen, the Pancreas, or the Mifentery be feiz'd, then Bleeding with Diluters and nitrous Medicines are its adequate Cure : If it depend on an Extravafation, there are various Means of curing it, but we must avoid Suppuration in internal Extravafations; if possible, Discussion or Repulfion must be attempted; we must make proper Discharges from the Veins by Bleeding, from the Mass of Juices by gentle Catharticks ;

tharticks; and we must give internally Aperients, and apply them: externally, to remand the extravas'd Matter into the Blood again: This is always attended with a continual and lasting Pain of the Part affected: If it depends on an Ulcer, then all Vulneraries must be administred internally; but to speak Truth, when the Viscera are ulcerated, there remain but small Hopes of Life: That which depends on Worms, must be attempted with Æthiops Mineral, Coralline, burnt Hartshorn, and many such Vermifuges: If it depends on a Corruption of Humors, that is, on their being too much exalted, as a furor uterinus depends on the Semen being too acrimonious; we are to have Regard to the peculiar Depravity, and remedy it according to the Rules of Art. A Hectick is remedied with gelatinous, watry, milky, and mucilaginous Remedies; Bleeding, Vomits, Catharticks, and Diaphoreticks must be avoided, because they discharge, and because they heat the Blood: Cordials of the testaceous and gentle Aromaticks are necessary: What will absorb Acrimonies are convenient; hence is it that Pearls, Crabs Eyes, and Coral, are prescrib'd; hence is it that Garmannus's Tinttura Vellele M 4

Tinctura Antiphthisica is of use; and many give the Bark in this Case; but we in England succeed well with a Diet of Asses Milk; their common Drink ought either to confift of Almond Milk, or of a Decoction of Sarfa and China Roots, of Hartshorn Shavings, of Maiden-Hair, and of candied Eryngo Root: Their Nourishment ought to confift of Rice, Oatmeal, or Panado; and at Dinner, Chicken, Rabbit, or Veal. Lastly, the flow Fever, which began with a Chilness or Shivering, must be cured, whether it be malignant, or only flow without any Malignity, after one and the same Method; namely, by Blifters, teftaceous and volatile Remedies. Thus may those, who are under Doubts, fatisfy themselves in a convenient Space of Time, and run no Risque of their Patients Lives, or of their own Reputations.

Periodical Coma's have of late been very common; so soon as the Fit was over, the Drowsiness abated, till the Fever return'd; the Brain suffers in Proportion to the Quantity deposited on it: The Fit rarefying the Juices, the Fibres of the Brain are so distended, that a Stupor and Sleepiness ensue for a Time; the rarefy'd Blood in the Vessels

Vessels compresses the cortical Substance of the Brain, and hinders a due Secretion of the animal Spirits, from whence there is little or no Secretion of them, and a flow Motion enfues, attended with a Sleepiness: As Watchfulness depends on too rapid a Motion of the Spirits, and a too great Elasticity of the Nerves, so Sleep is caus'd by too flow a Motion of these Spirits, and on a Relaxation of these Nerves. The best Evacuations are Blifters, which rouse and discharge too: Bleeding is not beneficial, unless the Body be very plethorick; gentle Physick in the beginning is of great Use; but the Bark and Thea complete the Cure; because the Bark takes off the Exacerbation, and Thea the Inactivity of the Juices. It is much better that a Fever begins than ends with Coma's: Because in Beginnings. of Fevers, the Symptoms are produc'd from the Humors passing thro' the Parts, whereas at the latter End, they are caus'd from these same Humors deposited upon the Parts: wherefore are any Symptoms in the Beginning easier to relieve, than at the Ending: And what at last is dangerous, is at first not much to be dreaded. There is great Difference between a rapid Circulati-

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on and a Stagnation; between too great a Fluidity, and the Blood turning into a Solid. It is easy enough to abate the former, but not possible almost to return a Coagulum into a Fluid again: And hence the great Disparity of Success arises between any the minutest Symptom at the Ending of Fevers, and in the Beginning. This Obfervation may be confirm'd by Numbers of Experiments, and that it may better appear, I shall give one or two Instances; Phrenzies in the Beginning of the Small-Pox, are only Signs of the Blood's too rapid Motion, and Bleeding, with a cool Regimen, does prefently remove them; whereas if they come on at the State or before, they require exquisite Care, and a due Regimen, the Discharges are not so safe, and Opiates are wanted in large Doses, and it is a considerable Time before you can get them to yield, if the Affair can be done at all. Colicks in Fevers at the Beginning are mostly flatulent, but if they come at the latter End, they are generally Inflammatory. Watchings in beginning Fevers, are often attended with a large Pulse, and then Bleeding and gentle Opiates may be given; but at the End, the Pulse is small, and Opiates wou'd throw your Patients into a deep Sleep, and wou'd hurry on Death. Vomitings in the Beginning of a Fever do prove, that the Humors are gather'd in the Stomach from some Debauch, or some irregularity of Diet; but at the latter End. they denote a Separation of Humors from the Blood: In the first Case we may promote their Expulsion with gentle Emeticks, and may even venture to carry them downwards; but in the Conclusion of a Fever, we dare attempt neither, because we might exhaust the Spirits, or raise Tumults in the Humours: If a Jaundice break forth on the fourth Day of a Fever, it is much better than if it comes at the Conclusion of a Fever; because the first is most likely Critical, and the latter most commonly Symptomatical. Thus we fee how Symptoms are govern'd by the Times of a Difease, and how we are govern'd in our Prognosticks by these Seasons of Dif. eases: And Inflammations, Pains, Bleedings, and Fevers in the Beginning have a quicker Circulation than in their Decline; when the Blood fixes on the Parts every where, and is not readily remov'd from the Parts it fixes upon, as Experience teaches us daily. I have

I have observ'd a Difficulty in Breathing to attend these Fevers, in Persons whose Habit was fcorbutical; because the Lungs are stuff'd with a viscid Blood, and cannot readily transmit the Blood circulating with an unufual Degree of Swiftness, and the fame happens to them, that wou'd befall em, if they walk'd up Hill, or up a Pair of Stairs; and not only the Lungs are stuff'd with Contents clinging to the Walls of their Vessels, but the Muscles of the Breast also have their Share of Obstruction; as in Pleurisies there is an Inflammation, that is, a Tumor, and where there is any Tumor, the Lungs can't expand themselves freely, nor can the Parties breathe freely at that Time; so in such a Difficulty, the Vessels will become rigid and extended more than usual: For every Obstruction or Impediment in a Vessel produces a Sort of Tumor, or preternatural Largeness above the Part so obstructed; and in Blood a little sharper than naturally it shou'd be, this a. mounts to a Species of Inflammation. The Lungs are so necessary an Organ, that a small Obstruction there, is of an infinitely ill Consequence to Life; and therefore the least Difficulty of Breathing, or the smallest Im-

Impediment in their Function, may prove dangerous in the End: It also happens upon Efforts that are about to be made, when the Blood throws off some noxious Parts into the Breaft; but this feldom is the Case, till about the eleventh Day, when regular and critical Rashes appear: I have also observ'd, that in an irregular Administration of the Peruvian Bark in a Fever. the Patient has all at once been surpriz'd with fuch a Difficulty of Breathing, and an universal Eruption of vesiculated Eruptions: And it is Odds, but by fuch Management some fixt Disease had been fram'd in some of the Viscera. In others, such a Difficulty depends on the Nerves convuls'd and contracted, and this happens mostly in hysterical Persons, and they are taken with a dry Asthma, and are generally convuls'd elsewhere. As to the Methods of Cure. they must be varied according to the Caules; however in Fevers, Blisters are mostly requir'd, because they discharge and call off the Bent of Humors towards the Lungs; and I must observe to you, that the Calves of the Legs or the Thighs, or both, are almost a sudden Relief for Difficulties of Breathing; not that I suppose there is any other

other Communication between the Lungs and the lower Parts, than that we call the Humors off from the Lungs to a distant and less noble Part, of which more has been faid in the Preface: In nervous Cases, the Lac Ammoniaci, the Juleps of Rue-water, Pæony compound, Tincture of Caftor, and Bolus's of volatile Salts, Caftor, pulv. ad Guttetam, and Venice Treacle are commendable. In Rashes about to break forth. we must give all the volatile Salts, as well as all cordial Remedies in Use to encourage the Eruption; this fort of Abstma is known or guess'd at, by its coming on so fuddenly, and beyond all Expectation, and by its Driness; as also by looking on the Breaft, you will probably perceive fome fmall Bladders, by holding a Candle on one Side of the Breaft, and placing your Eye on the opposite Side. The Difficulty attending scorbutick Persons, is generally co-eval with the Fever; fo foon as the Fever begins, this Symptom attacks the Patients. and it lasts for some Time, or till true Methods are used for abolishing or lessening it: Bleeding is requir'd in the Fit, to fuch a Quantity as the Patient's Strength will bear, and the Symptom demands conjointly:

If the Difficulty be great, and their Strength be in full Vigour, we may draw off as much by Degrees, as will thoroughly take away the Symptom, having Regard to its Cause; the Patient's Strength wont bear so much Evacuation as the Symptom demands, you must act with great Caution, and give Notice under what dangerous Circumstances the Patient is plac'd; and thus you will gain Applause: As to that Difficulty of Respiration which attends Horrors in the Beginning of Fevers, it is taken off as the original Cause is, to wit, by plentifully administring volatile Spirits, warm Wine and Cordials.

Besides the Quickness and Rareness of the Pulse before-mention'd (Pag. 118.) in old Persons, I have very lately observed a quick, rare, and strong Pulse in a Person of Vigour, and in his Prime; the Fever proved fatal by a Neglect of himself; to the Elasticity and Flexility of the Vessels, we must add a Quantity of Spirits for a Cause; Vessels ought naturally to be flexile and elastick; Rigidity and Laxity wou'd destroy this Mean, for so soon as Vessels grow stark, their Systole and Diastole are at an End; and if they become flaccid, they yield too much.

much, and beat too flow, and cease at last to beat at all. This double Property therefore of the Vessels has certain Limits; and altho' Quickness denotes an Extreme of Elasticity, yet this Extreme it self has Degrees, which Experience only will inform us of: What is faid of Elasticity, is true in Relation to Flexility, which has its Limits also; but which we are intirely ignorant of; the Rareness of the Pulse depends on this Cause, whose Degrees we are to learn by Observation: A cohesive Blood, render'd fuch by Salts lodg'd in it, will ftimulate feldom, and for the most Part irregularly; a cohelive Blood affords few Spirits, unless such as are forc'd into the Brain; the Strength of the Pulse therefore depended on a Quantity of Spirits, which in Fact were the Effect of spirituous Liquors thrown plentifully in: The Confequence therefore was fatal, because the Vesfels were faulty in their Function, and the Spirits in their Quantity, which drove in a Quantity of Fluids into the smallest Channels, that did not circulate, but lodg'd there, and overcharg'd the Brain.

I fear my Readers will be wearied out with a Detail of Particulars contain'd in

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these Sheets; if I had wrote however in an historical Method, it is certain there wou'd ha' been greater Reason to complain of the Length of them; the Cautions are fuch as resulted out of Observations repeated; if they coincide with any that have appear'd; I flatter my felf that somewhat more is said, than those Authors have remark'd in so fmall a Compass; if any Difference appears in some of them, let them remember, that Cases are seldom so alike, as not to admit of fome Variety. I shall make no further Apology for them, than that they are Cases without Names; and that I have not been oblig'd to relate any whole Cafe, only have in various Paragraphs fpoke of all the Accidents that have for fome Tract of Time befallen Patients, and have class'd the Symptoms without Order. Thus have I avoided many Repetitions, which must otherwise have happen'd, without this Method; for how is it possible in so many Histories, as these Sheets are compil'd out of, but Blisters must have been mention'd to have been apply'd over and over again; or as often as we law their Spirits or Fever requir'd it, where all that cou'd ha' been added was to relate their Success; but as the Case

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now stands, I have given a general Remark on Blisters, and have added what I found necessary to be thought of their Use in the Cases I had under my Care, which is making short Work of tedious and voluminous Histories.



FINIS.

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